

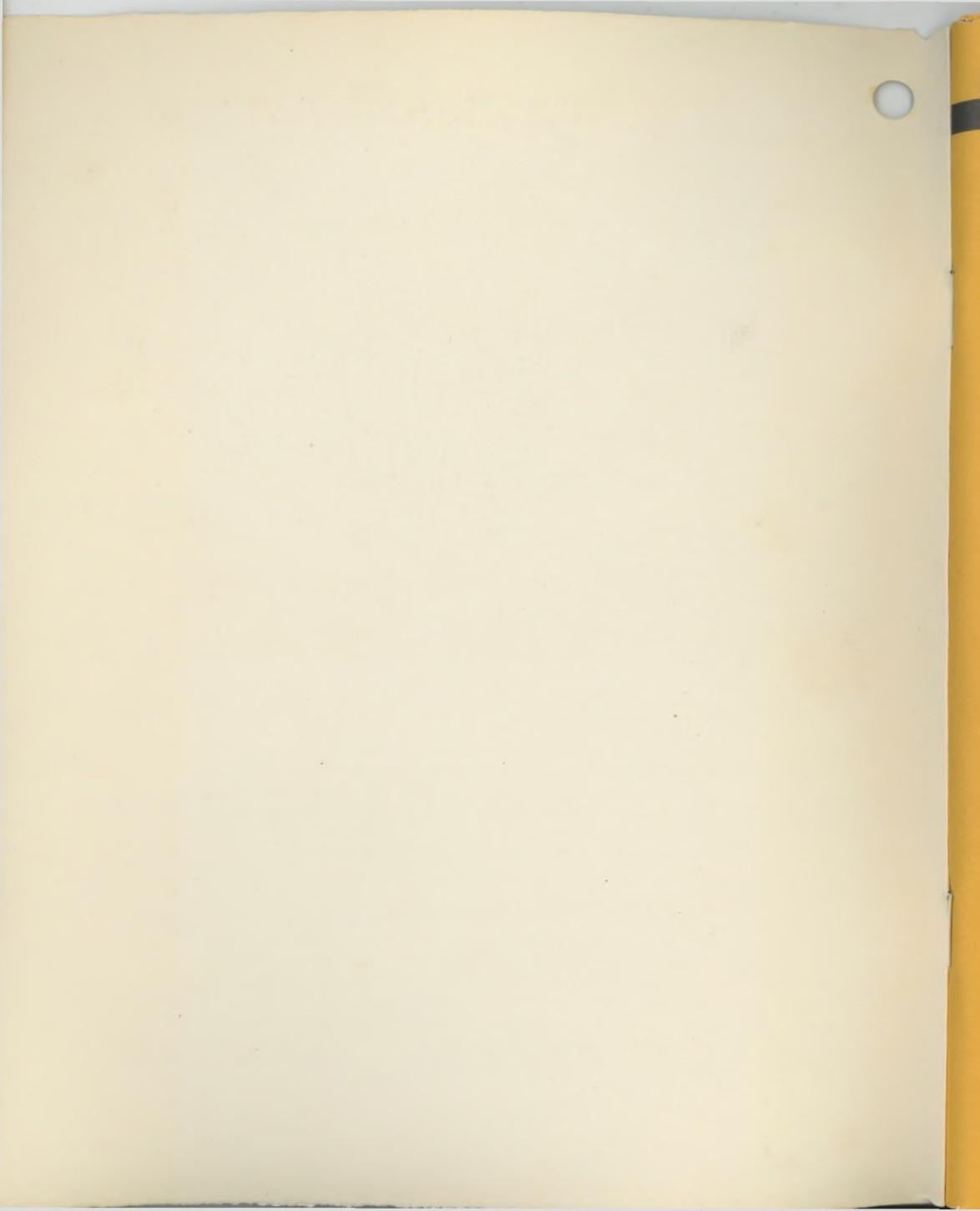
**BONNEY**

*Quality Tools*

...FOR ALL MARKETS

**CATALOG 57-S**

BONNEY FORGE & TOOL WORKS -- ALLIANCE, OHIO





THE FACTORY WHERE "QUALITY" IS MANUFACTURED



## MODERN

During the past 80 years, Bonney has made great strides in keeping ahead of the industry with new ideas and top quality tools. Now, with this new and modern plant in Alliance, Ohio, and the finest production facilities, Bonney can boast of having achieved the "ultimate" in tool manufacturing.

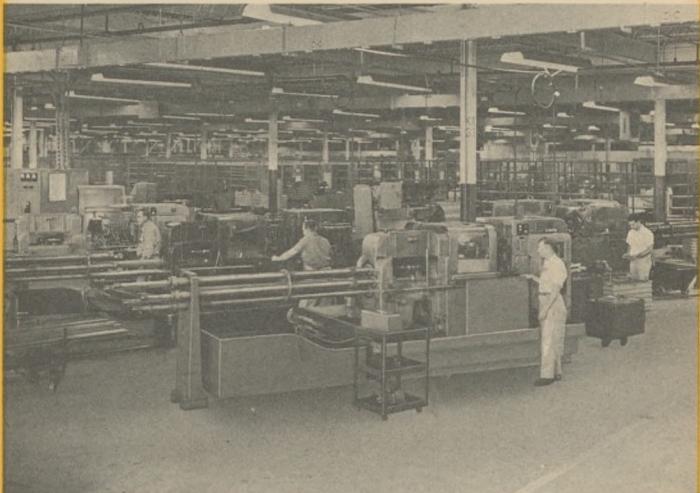
### REQUESTS FOR SPECIAL TOOLS

We welcome any request for special tools. Our Engineering and Production Departments are equipped to handle all requests of this type. Bonney has a tool for every job in its complete line of over 2800 items. Mechanics and servicemen depend on Bonney for tools that are made with their interest in mind. Many "special" tools are produced in addition to the standard line.

## MODERN FACILITIES FOR BETTER PRODUCTION

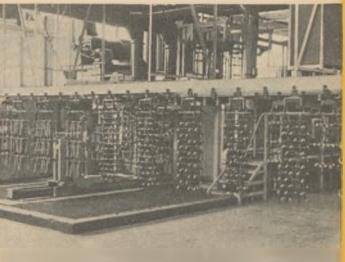


Below are pictured a few of the automatic turning machines found in the Machine Department. Most prominent of these are the Multiple Spindle Bar Turning machines which are used for producing socket wrench blanks, ratchet parts, and other items which require close tolerances.



Here we see a row of semi-automatic, atmospheric-controlled heat treating furnaces of the latest design. Each tool that passes through this Department receives individual attention as to the specific type of job it is destined to perform for the user.

In the photo on the right, we see the completely automatic plating machine which cleans and plates the tools in an uninterrupted sequence. The chrome-nickel plating process was first introduced by Bonney and has been recognized by the industry as one of the outstanding contributions in tool manufacturing.





## NUMBERING SYSTEM — SOCKETS, WRENCHES, ETC.

The following description fully outlines the Bonney coding system for part numbers. The engineering department, being responsible for assigning part numbers, is constantly on the alert for simplification of codes.

The Engineering Department has given a great deal of thought to proper coding of tools.

The Bon-E-Con (second line of tools) coding system is the same as for Bonney tool with the addition of the prefix "Z."

### SOCKETS

V—Denotes 1/4" Sq. Drive Tools (except refrigeration)

T—Denotes 3/8" Sq. Drive Tools

A— " 1/2" "

R— " 3/4" "

X— " 1" " "

### SOCKETS

L—Denotes Long

U— " Universal

Note: Unless one of the letters below are used, opening is Double Hexagon (12 point).

H—Denotes Hexagon (6 point) opening

SS— " Single Square (4 point) opening

S—Denotes Square (8 point) opening  
The numbers following the code letters for type of tool are equal to the size across flats in 32nds of an inch.

Examples:

VLH8 1/4" Drive, Long, Hexagon  
8/32= 1/4"

TUH14 3/8" Drive, Universal,  
Hexagon 14/32=7/16"

A20 1/2" Drive, 12 point  
20/32= 5/8"

TSS9 3/8" Drive, Single Square  
9/32=9/32"

### SOCKET ATTACHMENTS

All attachments carry the drive size identification letter as used for sockets listed above.

V—1/4" Sq. Drive

T—3/8" " "

A—1/2" " "

R—3/4" " "

X— 1" " "

### EXTENSIONS

All extensions are in the 600-699 group.  
The last two (2) numbers give the length.

Examples:

V606 1/4" Sq. Drive, 6" long

T612 3/8" Sq. Drive, 12" long

### OTHER ATTACHMENTS

See above on drive size identification letter.

#### a. Ratchets

Drive Size Letter—700 to 709

#### b. Ratchet Adaptors

Drive Size Letter—710 to 719

#### c. Hinge Handle

Drive Size Letter—720 to 729

#### d. Sliding Tee

Drive Size Letter—730 to 739

### e. Speeder

Drive Size Letter—740 to 749

### f. Offset Handle

Drive Size Letter—750 to 759

### g. Universal

Drive Size Letter—760 to 769

### h. Tee Handle

Drive Size Letter—770 to 774

### i. Pin Handle

Drive Size Letter—775 to 779

### j. Screw Driver Handle

Drive Size Letter—780 to 784

### k. Socket Screw Drivers & Drag Link

Drive Size Letter—785 to 794

### OTHER WRENCHES

#### E—End

ET—End Tappet (15°)

ETA—End Tappet Angle (other than 15°)

ETL—End Tappet Long

EM—End Miniature

EE—End Electrical

EB—End Box (Combination)

EBL—End Box Long (Combination long series)

EBHL—End Box Long Hex (Combination long hex)

BM—Box Miniature (offset)

BS—Box Short (offset)

B—Box (offset regular length)

BAS—Box Angle Short (15° Angle Short)

BA—Box Angle (15° Regular Length)

BASH—Box Angle Short Hex (15° Angle Short Hex)

BAH—Box Angle Hex (15° Angle Reg. Length)

ESA—End Short Angle (special angle)

ELT—End Long Thin

ERA—End Right Angle

BF—Box Flare

BFH—Box Flare Hex

EL—End Long

The numbers following the code letters for type of tool are equal to the size across flats in 32nds of an inch. If two (2) openings are involved the smaller one always precedes the larger.

Examples:

E1214 End Wrench

12/32 x 14/32=3/8" x 7/16"

EBHL16 End Box—Combination,

Long, Hexagon 16/32—1/2"

## STANDARD BOLT, NUT &amp; SCREW SIZES—MATCHING OPENINGS



Here is a quick reference chart showing the various openings of wrenches and sockets and the standard bolt heads, screw heads and nuts they fit. Measurements are given in inches.

Thread Dia. of Bolt, Nut or Screw	NUTS				BOLTS AND SCREWS				
	Finished Hex.	Castle Slotted, Hex. Jam	Reg. Square, Semi-finished Hex.	Machine Bolt Nuts	Screw & Stove Cap Screws	Heavy Bolts: Finished Hex. & Semi- finished Hex.	Lag Bolts: Square	Set Screws: Square	
# 0 & 1				5/32					
# 2 & 3				3/16					
# 4				1/4					1/4
# 5 & 6				5/16					5/16
# 8				11/32					
# 10				3/8			9/32	3/16	
# 12	1/4			7/16	1/4				7/32
1/4"	7/16	7/16	7/16	7/16	.+3-8-7/16		3/8		1/4
5/16"	1/2	9/16	9/16	1/2			1/2		5/16
3/8"	9/16	5/8	5/8	9/16			9/16		3/8
7/16"	11/16	3/4		5/8			5/8		7/16
1/2"	3/4	13/16		3/4	7/8		3/4		1/2
9/16"	7/8	7/8		13/16					9/16
5/8"	15/16	1		15/16	1-1/16		15/16		5/8
3/4"	1-1/8	1-1/8		1-1/8	1-1/4		1-1/8		3/4
7/8"	1-5/16	1-5/16		1-5/16	1-7/16		1-5/16		7/8
1"	1-1/2	1-1/2		1-1/2	1-5/8		1-1/2		1
1-1/8"	1-11/16	1-11/16		1-11/16	1-13/16		1-11/16		1-1/8
1-1/4"	1-7/8	1-7/8		1-7/8	2		1-7/8		1-1/4
1-3/8"	2-1/16	2-1/16		2-1/16	2-3/16				1-3/8
1-1/2"	2-1/4	2-1/4		2-1/4	2-3/8				1-1/2
1-5/8"	2-7/16	2-7/16		2-7/16	2-9/16				
1-3/4"	2-5/8	2-5/8		2-5/8	2-3/4				
1-7/8"	2-13/16	2-13/16		2-13/16	2-15/16				
2"	3	3		3	3-1/8				
2-1/4"	3-3/8	3-3/8		3-3/8	3-1/2				
2-1/2"	3-3/4	3-3/4		3-3/4	3-7/8				
2-3/4"	4-1/8	4-1/8		4-1/8	4-1/4				
3"	4-1/2	4-1/2		4-1/2	4-5/8				

4- and 8-Point Sockets are used on Square Bolt Heads, Nuts and Screw Heads.

6- and 12-Point Sockets are used on Hexagon Bolt Heads, Nuts and Screw Heads.

†Regular Square Bolts Only.



## ALPHABETICAL INDEX BONNEY TOOLS

Adaptors	Sec.	Pg.	Double Offset Box Wrenches	Sec.	Pg.
1/4" Drive	1	5	Wrenches	2	7-8
5/16" Drive	1	12	Drag Link Sockets	1	12+18
1/2" Drive	1	18	Electrical Wrenches	2	3
3/4" Drive	1	21	Extra Deep Sockets		
1" Drive	1	23	1/4" Drive	1	2
Adjustable Wrenches	2	15	3/8" Drive	1	7
Adjustable Wood File Handle	7	2	1/2" Drive	1	15
Allen Keys (Set N5R)	16	15	3/4" Drive	1	20
Attachments for Sockets (See Socket Attachments)	1	1-23	Extra-Small Box Wrenches	2	8
Body & Fender Tools	8	1-3	Extractors, Screw, Ser. Set	10	4
Boxes, Tool	18	1-2	Feeler Gauges	10	2-3
Box Wrenches			Files and Handles	7	1-2
15° Angle	2	9	Files & Holders, Body & Fender	8	2
Carbon	13	2-7	Flare Nut Wrenches	2	13
Combination Box & Open End	2	10-11	Flaring Tool	11	1
Double Offset	2	7-8	Foot Rule	10	3
Extra Small	2	8+12	Gauges, Feeler	10	2-3
Heavy Duty Ind.	13	1-8	Gear Pullers	9	1-3
Long, One End Offset	2	10	Hack Saw and Blades	7	3
Single Hexagon	2	9	Hammers		
Slotted	2	14	Ball Pein	6	3
Striking Face	13	1	Body and Fender	9	3
Brake Spring Plier	10	1	Bumping Hammers	9	3
Brake Tools	2	14	Claw	6	3
Bushing Driver Set	10	1	Dinging Hammer	9	3
"C" Clamps	14	1	Cross Pein Hammer	6	3
Cabinets	18	3-4	Pick Hammer	8	3
Camber Wrenches (N8)	16	15	Rubber Mallet	6	3
Carbon Scraper	10	5	Soft Face	6	3
Carbon Steel Tools			Tire and Rim	6	3
Box Wrenches	13	1	Upholsterer's Magnetic	8	3
Check Nut Wrenches	13	5	Hub Puller	9	3
Construction Wrenches	13	2	Holding Tools	10	5
Offset Socket Wrenches	13	7	Ignition Files	7	2
Open End Wrs. Sing.	13	3	Ignition Wrenches	2	12
Open End Wrs. Dbl.	13	4	Impact Sockets	12	2
Pin Spanners	13	8	Kerostet Packing Gland		
Set Screw Wrenches	13	5	Socket	11	3
Structural Wrenches	13	1-2	Knife, Shop	10	4
"T" Socket Wrenches	13	6	Leatherette Rolls	18	5-6
Chart of Openings for Bolts & Nuts			Magnetic Holding Tool	10	5
Check Nut Wrenches,			Manifold Wrenches	2	14
Carbon	13	5	Metal Snips	5	4
Chests (Metal)	18	3	Metric Tool Sets	15	3
Chevrolet Special Wrenches	2	6	Metric Wrenches - Sockets	15	1-3
Chisels	6	1-2	Miniature Wrenches	2	3
Chisel Set	16	18	Offset Socket Wrenches,		
Combination Box & Open End Wrenches			Carbon	13	7
Streamlined	2	10-11	Open End Wrenches		
Compressors, Piston Ring	10	5	15° Angle	2	2
Connecting Rod Sockets, Special	1	18	Adjustable	2	15
Construction Wrenches, Carbon	13	2	Carbon	13	2-5
Crow Foot Attachments			Combination		
1/4" Drive	1	4	Box & Open End	2	10-11
3/8" Drive	1	9	Electrical	2	3
1/2" Drive	1	16-17	Ignition	12	12
Cylinder Head Wrench	2	14	Long	2	2
Distributor Wrench	2	14	Miniature	2	3
Dolly Blocks	8	1	Right Angle	2	4
			Service	2	5-6
			Streamlined	2	2
			Packing Gland Sockets	11	3
			Pick-Up Tool	10	5

**ALPHABETICAL INDEX BONNEY TOOLS—Continued**



	<b>Sec.</b>	<b>Pg.</b>		<b>Sec.</b>	<b>Pg.</b>
Pin Spanners, Carbon	13	8	Sockets		
Pinch-Off Tool	11	1	1/4" Square Drive	1	2
Pipe Wrenches	2	15	5/8" Square Drive	1	6-7-8
Piston Ring Compressors	10	5	1/2" Square Drive	1	13-15
Piston Ring Groove Cleaner	10	5	5/4" Square Drive	1	20
Pliers			1" Square Drive	1	22
Battery	5	2	Metric Sockets,		
Bent Needle Nose	5	3	5/8" Drive	15	2
Brake Spring	10	1	Whitworth Sockets,		
Chain Nose	5	4	5/8" Drive	15	4
Combination	5	2	Socket Attachments		
Diagonal, Cutting	5	2	1/4" Square Drive	1	4-5
Duck Bill	5	4	5/8" Square Drive	1	9-12
Flat Nose	5	2	1/2" Square Drive	1	16-19
Hog Ring	5	3	5/4" Square Drive	1	21
Hose Clamp	5	3	1" Square Drive	1	23
Ignition	5	4	Socket & Tool Sets		
Lineman's	5	2	1/4" Square Drive	16	1-2
Lock Ring	5	2	5/8" Square Drive	16	2-5
Long Nose	5	3	1/2" Square Drive	16	5-9
Pump	5	4	(Also Assorted Drives)		
Slip Joint	5	2-3	5/4" Square Drive	16	10-12
Thin Bent Nose	5	3	1" Square Drive	16	13
Wiring	5	3	Socket Wrenches, Offset,		
Plier Wrenches	5	4	Carbon	13	7
Point Files	7	2	Socket Wrenches "T",		
Power Sockets	12	2	Carbon	13	6
Power Adaptors	12	3	Spanners, Pin, Carbon	13	8
Power Extensions	12	3	Spark Plug Sockets	1	12
Pry Bars	6	2	Special Wrenches	2	12-15
Pullers, Gear, Others			Special Tools, (See Miscellaneous Section)	10	1-5
Adaptor	9	3	Spinner Wrenches	2	14
Hub	9	3	Sporlon Valve Socket	11	2
Punches	6	2	Spoons, Body & Fender	8	2
Punch and Chisel Set	16	18	Spring Tester	3	2
Putty Knife	10	3	Starter Wrenches	2	14
Ratchets	1	5+11+19	Steering Adjustment Wrenches	2	6
(See Socket Attachments)		21+23	Structural Wrenches	13	1-2
Ratchets, Refrigeration	11	1	Stud Wrench	1	18
Ratchet Plug Adaptors	11	3	Superior Packless Valve		
Refrigeration Special Tools	11	1-3	Wrench	11	1
Refrigeration Tool Sets	16	20	"T" Socket Wrenches,		
Retainer Pins (Industrial Brochure)			Carbon	13	6
Right Angle Wrenches	2	4	Tappet Wrenches	2	4
Rim Wrenches	10	1	Thread Restorers	10	4
Roller Cabinets	18	3-4	Tire and Rim Tools	10	1
Rolls, Leatherette	18	5-6	Tool Boxes	18	1-2
Screw Drivers			Torque Wrenches & Attachments	3	1-5
Adjusting	4	2	Transmission Tools	17	1-4
Clutch Head	4	2	Transmission Display		
Electricians	4	2	Boards	17	4
Neon Tube	4	2	Tube Benders	11	2
Offset Screw Drivers (Set 0672)	16	14	Tube Cutter	11	1
Phillips	4	2	Valve Stem Sockets	11	3
Round Shank	4	2	Whitworth Wrenches	15	4-5
Starters, Holding	10	1	Whitworth Sockets,		
Socket Wrench Type	2	14	5/8" Drive	15	4
Square Shank	4	2	Whitworth Socket & Tool Sets	15	6
Screw Starters	10	1	Wrench Sets (See Specific Types)		
Service Wrenches	2	5-6	Wrenches, Metric	15	1-2
Set Screw Wrenches,					
Carbon	13	5			
Shop Knife	10	4			
Single Head Wrenches	1	1-23			

See Section 19, Page 1, for information on abused tools.

See Section 19, Page 2, for information on pipe threads and machine screws.

See Section 19, Page 3, for errata sheet for any corrections or deletions in catalog pages.

	<i>Sec.</i>	<i>Pg.</i>		<i>Sec.</i>	<i>Pg.</i>
$\frac{1}{4}$ " Drive			Tool Sets in Cardboard Box or Plastic Rolls		
VM5B			C45R	16	18
V50B	{	16	C46R	{	
V51B	}	1	N5R		
V53B	{	16	N8	{	
V54B	}	2	N11R		15
			N13R		
$\frac{3}{8}$ " Drive			N20R		
TB3R	{	16	N24R		
TB5B	}	2	N45R		16
			N46R		
TD1B	{	16	N56R		
TD2B	}	3	N60R		
TD4B			NG1R		
TD11B	{	16	N64R		17
TD14B	}	4	N65R		
TM10B	{		N68R		
TWB		5	N80R		18
			N93R		
			N98R		18
$\frac{1}{2}$ " Drive			SER	10	1
AA8B	{	16	TR7	10	1
AA16B	}	5	TR8	10	1
AA18B			Tool Sets, Body & Fender		
AA20B			FB3B		
AA24B	{	16	FB8B		
AA28B	}	6	F26		19
LD2B			Tool Sets, Air Cond. & Refrig.		
AM16B	{	16	RF80B		
AM20B	}	7	RF81B		
AM28B		8	RF66		20
AM36B		9	Metric Tool Sets		
			M200R		
$\frac{3}{8}$ " to $\frac{3}{4}$ " Drive			M205R		
AM44B		10	M215B		
			M230B		3
$\frac{1}{4}$ " to $\frac{3}{4}$ " Drive			Whitworth Tool Sets		
AM48B		11	W100R		
AM60B		12	W105R		
			W115B		
$\frac{3}{4}$ " Drive			W120B		
HD1B		13	W130B		6
1" Drive					
XH1B		13			
Tool Sets, Screw Drivers					
CL	{				
CP					
WP	{	16			
W05		14			
0672	}				

SOCKETS—HANDLES  
ATTACHMENTS  
 $\frac{1}{4}$ "— $\frac{3}{8}$ "— $\frac{1}{2}$ "—1" DRIVE

WRENCHES  
OPEN END—BOX  
COMBINATION

TORQUE WRENCHES  
FORMULA—DESCRIPTION

SCREWDRIVERS  
WOOD—PLASTIC

PLIERS  
TECHNICAL DATA

HAMMERS  
CHISELS—PUNCHES

HACK SAWS  
AND FILES

BODY AND  
FENDER TOOLS

GEAR PULLERS  
AND SEPARATORS

TOOLS FOR MISC.  
REQUIREMENTS

REFRIGERATION  
& AIR CONDITIONING

POWER AND  
IMPACT SOCKETS

HEAVY DUTY  
WRENCHES

"C" CLAMPS  
TECHNICAL DATA

WHITWORTH AND  
METRIC TOOLS

TOOL SETS

AUTOMATIC  
TRANSMISSION TOOLS

CABINETS  
ROLLS—BOXES

TECHNICAL  
INFORMATION

*Backed by a Factory Guarantee . . .*  
Over 80 years of progress has made Bonney a leader in the  
tool industry. The broad line of tools produced in this plant  
are backed by a factory guarantee to the user.

## "GUARANTEE"

Bonney Tools are made from the finest obtainable steels to meet normal conditions to which the tool would be subjected. Each Bonney Tool is individually inspected before leaving the factory, and is guaranteed against defects in workmanship and/or materials. Defective Bonney Tools will be replaced or repaired free of charge.

Free replacement cannot be made if inspection shows that tools have been used for any purpose other than that for which they have been designed, or if they show normal wear.

All Bonney Tools must be returned to the factory in Alliance, Ohio, with charges prepaid, for examination before any adjustment will be made.

BONNEY FORGE AND TOOL WORKS  
2400 N. ROCKHILL ROAD, ALLIANCE, OHIO  
U. S. A.

See Section 19 (Technical Information) for description  
of tool abuse not covered by guarantee.



SOCKETS — 1/4, 3/8, 1/2, 3/4 AND 1 INCH SQUARE DRIVE

1

## Highest Quality . . . Alloy Steel

You can actually "feel" the quality in Bonney sockets. Only the finest materials are used to assure long life and accurate performance for the benefit of the ultimate user. Over the years, Bonney has proven their "know how" in producing sockets that fit the job. Pictured below are sockets from 4 point to 12 point available in the Bonney line.



4 Point



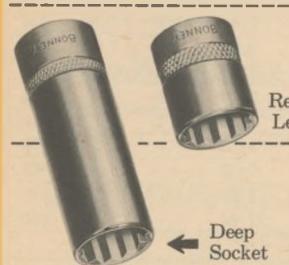
6 Point



8 Point



12 Point



### REGULAR . . .

To understand deep and regular sockets we have illustrated each of these. The regular (short) type is used most commonly.

### DEEP . . .

The deep socket (long) is used where a deep throat is necessary for bolt clearance.



## BONNEY RATCHET WITH REPLACEABLE UNIT

Now you can repair your ratchet in a matter of minutes with Bonney's new "replaceable unit" ratchet. Just remove the snap ring—the old unit drops out—insert the new assembly and replace the snap ring.

Bonney offers a complete range of sizes from 1/4" drive to 1" drive ratchets. All of these sizes are of the streamline design, light weight, with fingertip control.

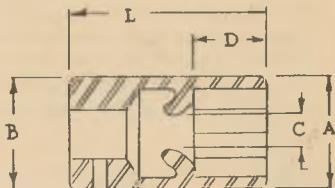
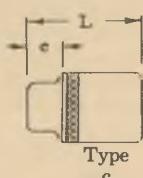
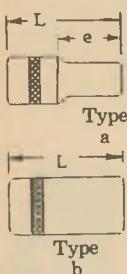
701-9

The replaceable assembly for each size ratchet carries the suffix 9 for convenience in ordering.

701-6

The snap ring carries the suffix 6 for reorder.

# SOCKETS — 1/4 INCH SQUARE DRIVE DEEP



Part No.	Nom. Opening	Type	A	B	C Min.	D Min.	e	L	Weight Lbs.
<b>TWELVE-POINT OPENINGS</b>									
V6	3/16	a	19/64	1/2	5/32	1/4	1/2	7/8	.022
V7	7/32	a	11/32	1/2	5/32	9/32	1/2	7/8	.025
V8	1/4	a	3/8	1/2	5/32	9/32	1/2	7/8	.025
V9	9/32	a	13/32	1/2	11/64	9/32	1/2	7/8	.025
V10	5/16	a	29/64	1/2	11/64	9/32	1/2	7/8	.025
V11	11/32	b	1/2	—	13/64	9/32	—	7/8	.028
V12	3/8	b	17/32	—	9/32	9/32	—	7/8	.028
V14	7/16	b	5/8	—	9/32	9/32	—	7/8	.047
V16	1/2	b	11/16	—	11/32	21/64	—	7/8	.050

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/4" Drive

## EIGHT-POINT OPENINGS

VS8	1/4	a	29/64	1/2	11/64	9/32	1/2	7/8	.028
VS10	5/16	b	9/16	—	11/64	5/16	—	7/8	.038
VS12	3/8	b	21/32	—	9/32	3/8	—	7/8	.055

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/4" Drive

## V SERIES



## VS SERIES



## TWELVE-POINT OPENINGS

VL6	3/16	a	19/64	1/2	5/32	1/4	1-5/8	2	.034
VL7	7/32	a	11/32	1/2	5/32	9/32	1-5/8	2	.038
VL8	1/4	a	3/8	1/2	5/32	9/32	1-5/8	2	.041
VL9	9/32	a	27/64	1/2	5/32	9/32	1-5/8	2	.044
VL10	5/16	a	29/64	1/2	5/32	5/16	1-5/8	2	.050
VL11	11/32	b	1/2	1/2	13/64	11/32	—	2	.059
VL12	3/8	b	17/32	17/32	9/32	3/8	—	2	.066
VL14	7/16	b	5/8	5/8	9/32	7/16	—	2	.094
VL16	1/2	b	11/16	11/16	11/32	1/2	—	2	.109

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2—1/4" Drive

## VL SERIES



Bonney offers a complete line of handles and attachments from 1/4" drive through 1" drive. Below you will find a brief description of a few of these handles and attachments.

## DRAG LINK SOCKETS

Designed for special drag link adjustments on many passenger cars and trucks. Made for dependable service and accurate adjustments.

## SCREWDRIVER ATTACHMENTS

This screwdriver blade attachment comes in the popular drive sizes. Convenient for hard to reach applications.

## WOBBLE DRIVE EXTENSIONS

Designed for work in close quarters, enables the mechanic to obtain a small amount of swivel without the use of a universal joint. This tool does not carry a guarantee because of the unusual shape of the male end making it suitable for light duty work only.

## SCREWDRIVER HANDLE

Available in popular sizes for use with many attachments. Provides a "universal" feature.

## SPARK PLUG SOCKET

This handy spark plug socket which is new to the Bonney line features a spark plug retainer enabling the mechanic to remove and replace spark plugs without the danger of dropping the plug causing serious damage.

## ADAPTORS

These adaptors enable the mechanic to use tools on hand with attachments of a different drive size.

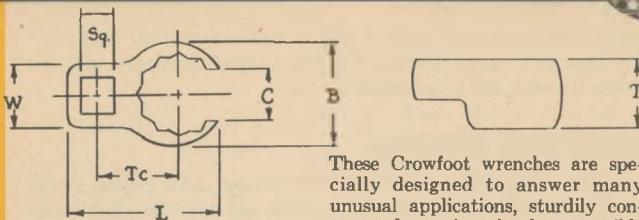
## CROSS HANDLES

Made of high grade metal for extra strength when using added power for tightening or loosening stubborn bolts and nuts.

## CROWFOOT ATTACHMENTS

Bonney Crowfoot wrenches are indispensable to torque wrench adjustments in obtaining specified torque. Designed specifically to perform unusual applications, sturdy construction for better service.

## CROWFOOT - 1/4 INCH DRIVE BOX TYPE

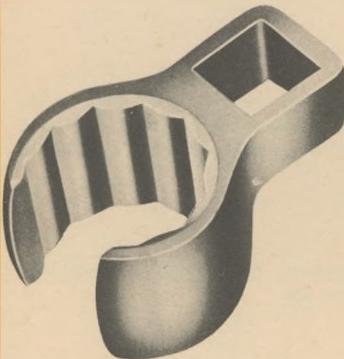


These Crowfoot wrenches are specially designed to answer many unusual applications, sturdily constructed to give the best possible service.

Part No.	Opening A	B	C	T	L	Tc	W	Weight Lbs.
VF12	3/8	9/16	9/32	17/32	7/8	31/64	15/32	.025
VF14	7/16	21/32	11/32	19/32	1	37/64	15/32	.028
VF16	1/2	3/4	3/8	19/32	1-1/8	5/8	15/32	.047
VF18	9/16	13/16	7/16	19/32	1-3/16	21/32	15/32	.044

Ref.: Fed. Spec. GGG-W-641B, Type 2, Class 1.

## BONNEY CROWFOOT ATTACHMENTS



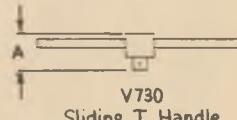
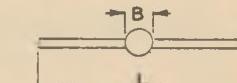
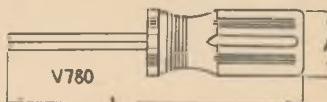
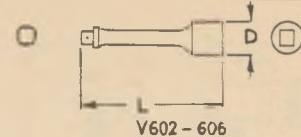
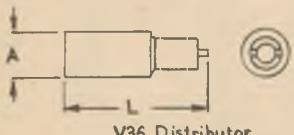
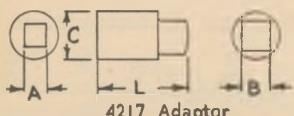
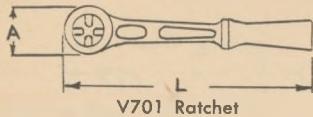
- Excellent for tubing fittings
- Attachments for torque wrenches
- Designed for the unusual request
- Complete range of sizes

On the following pages you will find other attachments and handles which round out the Bonney line.



## HANDLES AND ATTACHMENTS - 1/4 INCH DRIVE

1



Part No.	A	B	D	L	Wt. Lbs.
V602	—	—	1/2	2	.050
V606	—	—	1/2	6	.122
Fed. Spec. GGG-W-641B, Type 13, Class 1.					
V701	15/16	59/64	—	5	.187
Fed. Spec. GGG-W-641B, Type 6, Class 1.					
V720	17/32	5/16	—	5-3/4	.203
Fed. Spec. GGG-W-641B, Type 5.					
V730	57/64	1/2	—	4	.084
Fed. Spec. GGG-W-641B, Type 8, Class 1.					
Part No.	A	B	C	L	Wt. Lbs.
4217	1/4	3/8	1/2	15/16	.034
Fed. Spec. GGG-W-641b, Type 2, Class 1.					



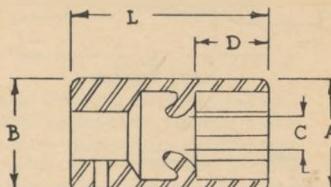
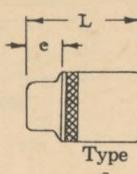
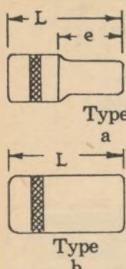
Part No.	A	L	Weight Lbs.
V780	7/8	6	.118
Fed. Spec. GGG-W-641B, Type 7, Class 3.			
V782	7/8	4-3/8	.106
No Ref.			
V36	1/2	1-3/8	.038
V775	3/16	3-1/2	.025

### BONNEY RATCHET

The Bonney reversible ratchet with the replaceable unit. With this unique unit it is possible to perform field repairs in a matter of seconds by merely removing the snap ring and inserting the preassembled replacement unit.



## SOCKETS — 3/8 INCH SQUARE DRIVE



Part No.	Nom. Open-ing	Type	A	B	C Min.	D Min.	e	L	Weight Lbs.
----------	---------------	------	---	---	--------	--------	---	---	-------------

### TWELVE-POINT OPENINGS

T10	5/16	a	29/64	21/32	11/64	9/32	13/32	29/32	.038
T12	3/8	a	17/32	21/32	9/32	9/32	13/32	29/32	.069
T14	7/16	a	39/64	21/32	9/32	9/32	13/32	29/32	.044
T16	1/2	b	11/16	—	11/32	21/64	—	29/32	.050
T18	9/16	b	25/32	—	13/32	21/64	—	29/32	.069
T19	19/32	b	13/16	—	13/32	21/64	—	15/16	.075
T20	5/8	b	27/32	—	15/32	21/64	—	15/16	.084
T22	11/16	b	59/64	—	15/32	11/32	—	1	.103
T24	3/4	c	1	11/16	17/32	7/16	11/32	1-7/32	.109
T25	25/32	c	1-1/32	23/32	17/32	7/16	11/32	1-7/32	.125
T26	13/16	c	1-1/16	3/4	19/32	15/32	11/32	1-7/32	.125
T128	7/8	c	1-5/32	3/4	21/32	1/2	11/32	1-9/32	.150

### SIX-POINT OPENINGS

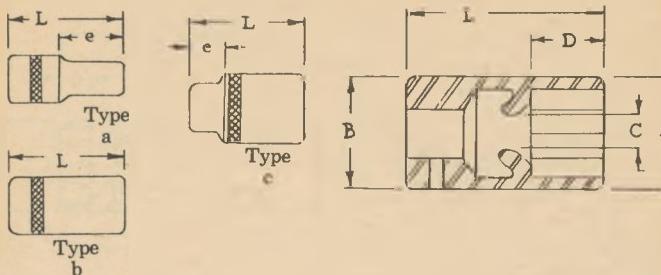
TH8	1/4	a	3/8	21/32	5/32	1/4	13/32	29/32	.044
TH10	5/16	a	29/64	21/32	11/64	9/32	13/32	29/32	.038
TH12	3/8	a	17/32	21/32	9/32	9/32	13/32	29/32	.069
TH14	7/16	a	39/64	21/32	9/32	9/32	13/32	29/32	.044
TH16	1/2	b	11/16	—	11/32	21/64	—	29/32	.050
TH18	9/16	b	25/32	—	13/32	21/64	—	29/32	.069
TH20	5/8	b	27/32	—	15/32	21/64	—	15/16	.084
TH22	11/16	b	59/64	—	15/32	11/32	—	1	.103
TH24	3/4	c	1	11/16	17/32	7/16	11/32	1-7/32	.109
TH26	13/16	c	1-1/16	3/4	19/32	15/32	11/32	1-7/32	.125
TH28	7/8	c	1-5/32	3/4	21/32	1/2	11/32	1-9/32	.150

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—3/8" Drive.



## SOCKETS — 3/8 INCH SQUARE DRIVE

1



Part No.	Nom. Open-	Type	A	B	C Min.	D Min.	e	L	Weight Lbs.
----------	------------	------	---	---	--------	--------	---	---	-------------

### FOUR POINT OPENINGS REG. LENGTH

TS9	9/32	a	17/32	21/32	7/32	9/32	13/32	29/32	.044
<b>8 Pt.</b>									
TS12	3/8	b	11/16	—	9/32	1/4	—	29/32	.062
TS14	7/16	b	25/32	—	9/32	9/32	—	29/32	.078
TS16	1/2	b	27/32	—	11/32	21/64	—	15/16	.103
TS18	9/16	c 1	11/16	13/32	21/64	11/32	1-7/32	—	.141
TS20	5/8	c 1-1/16	3/4	15/32	21/64	11/32	1-7/32	—	.159

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—3/8" Drive.

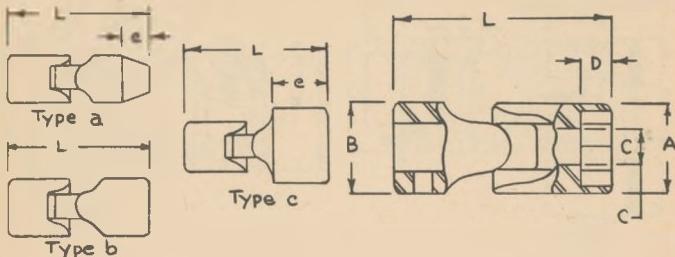
### SIX POINT OPENINGS DEEP

T120	3/8	a	17/32	21/32	3/8	3/8	1-1/4	1-3/4	.063
T140	7/16	a	39/64	21/32	13/32	7/16	1-1/2	2	.078
T160	1/2	b	11/16	—	15/32	7/16	—	2	.097
T180	9/16	b	25/32	—	17/32	15/32	—	2	.134
T200	5/8	b	27/32	—	19/32	15/32	—	2-1/4	.192
T220	11/16	b	59/64	—	21/32	1/2	—	2-1/2	.222
T240	3/4	b 1	—	—	23/32	1/2	—	2-1/2	.263
T260	13/16	b 1-1/16	—	—	25/32	1/2	—	2-1/2	.269
T280	7/8	b 1-5/32	—	—	27/32	9/16	—	2-1/2	.347

### TWELVE POINT OPENINGS DEEP

LT12	3/8	a	17/32	21/32	3/8	3/8	1-1/4	1-3/4	.063
LT14	7/16	a	39/64	21/32	13/32	7/16	1-1/2	2	.078
LT16	1/2	b	11/16	—	15/32	7/16	—	2	.097
LT18	9/16	b	25/32	—	17/32	15/32	—	2	.134
LT20	5/8	b	27/32	—	19/32	15/32	—	2-1/4	.192
LT22	11/16	b	59/64	—	21/32	1/2	—	2-1/2	.222
LT24	3/4	b 1	—	—	23/32	1/2	—	2-1/2	.263
LT26	13/16	b 1-1/16	—	—	25/32	1/2	—	2-1/2	.269
LT28	7/8	b 1-5/32	—	—	27/32	9/16	—	2-1/2	.347

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 2—3/8" Drive.



Part No.	Nom. Opening	Type	A	B	C Min.	D Min.	e	L	Weight Lbs.
<b>SIX-POINT OPENINGS</b>									
TU120	3/8	c	17/32	11/16	—	11/32	1/4	1-23/32	.094
TU140	7/16	c	39/64	11/16	—	9/32	11/32	1-23/32	.100
TU160	1/2	b	11/16	11/16	—	21/64	—	1-23/32	.094
TU180	9/16	c	25/32	11/16	—	21/64	—	1-3/4	.100
TU200	5/8	c	27/32	11/16	—	21/64	—	1-3/4	.103
<b>TWELVE-POINT OPENINGS</b>									
TU12	3/8	c	17/32	11/16	—	11/32	1/4	1-23/32	.094
TU14	7/16	c	39/64	11/16	—	9/32	11/32	1-23/32	.100
TU16	1/2	b	11/16	11/16	—	21/64	—	1-23/32	.094
TU18	9/16	c	25/32	11/16	—	21/64	—	1-3/4	.100
TU20	5/8	c	27/32	11/16	—	21/64	—	1-3/4	.103
TU22	11/16	c	59/64	11/16	15/32	11/32	17/32	1-49/64	.105
TU24	3/4	c	1	11/16	17/32	7/16	5/8	1-7/8	.105

Ref.: Fed. Spec. GGG-W-641B, Type 1, Class 3.

## BONNEY FLEXIBLE SOCKETS



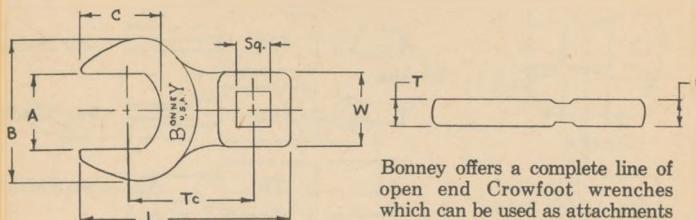
Illustrated at the left is the 12 point flexible socket which comes in the popular 3/8 drive in 5 sizes.

TU12 12 Pt.



The 6 point flexible socket also in the 3/8 drive comes in 5 popular sizes.

TU120 6 Pt.

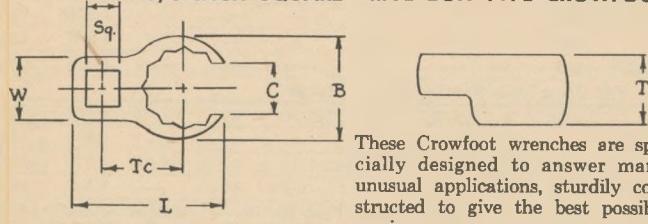


Bonney offers a complete line of open end Crowfoot wrenches which can be used as attachments for torque wrenches and other specific requirements.



Part No.	Opening A	B	C	L	T	t	Tc	W	Weight Lbs.
TC12	3/8	11/16	13/32	2-1/16	3/8	1/2	1-1/2	3/4	.125
TC14	7/16	7/8	1/2	2-1/8	3/8	1/2	1-1/2	3/4	.141
TC16	1/2	7/8	17/32	2-1/8	3/8	1/2	1-1/2	3/4	.134
TC18	9/16	1-1/8	21/32	2-7/32	3/8	1/2	1-1/2	3/4	.144
TC20	5/8	1-1/8	45/64	2-7/32	3/8	1/2	1-1/2	3/4	.138
TC22	11/16	1-7/16	27/32	2-5/16	1/2	1/2	1-1/2	3/4	.215
TC24	3/4	1-7/16	7/8	2-5/16	1/2	1/2	1-1/2	3/4	.200
TC26	13/16	1-21/32	31/32	2-3/8	1/2	1/2	1-1/2	3/4	.247
TC28	7/8	1-21/32	1	2-3/8	1/2	1/2	1-1/2	3/4	.241

### 3/8 INCH SQUARE DRIVE BOX TYPE CROWFOOT



These Crowfoot wrenches are specially designed to answer many unusual applications, sturdily constructed to give the best possible service.

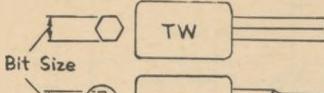
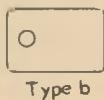
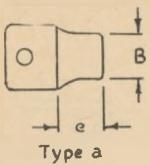


Part No.	Opening A	B	C	T	L	Tc	W	Weight Lbs.
TF20	5/8	29/32	15/32	3/4	1-3/8	3/4	5/8	.081
TF22	11/16	1	17/32	3/4	1-1/2	51/64	5/8	.078
TF24	3/4	1-3/32	9/16	25/32	1-1/2	27/32	5/8	.073
TF26	13/16	1-11/64	5/8	25/32	1-5/8	57/64	5/8	.108
TF28	7/8	1-17/64	11/16	13/16	1-5/8	61/64	5/8	.125
TF30	15/16	1-11/32	23/32	13/16	1-3/4	63/64	5/8	.131
TF32	1	1-27/64	3/4	27/32	1-7/8	1-1/32	5/8	.133
TF34	1-1/16	1-1/2	25/32	27/32	1-7/8	1-1/16	5/8	.141

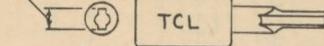
Ref.: Fed. Spec. GGG-W-641B, Type 2, Class 1.

## SOCKET SCREWDRIVERS - CLUTCH HEAD -

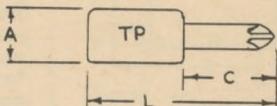
### PHILLIPS HEAD - SOCKET HEAD - 3/8 INCH DRIVE



For Socket Head Screws



For Clutch Head Screws



For Phillips Head Screws

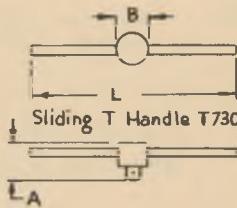
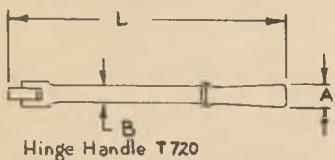
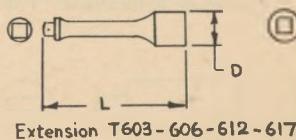
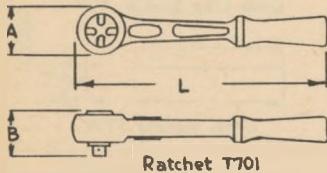
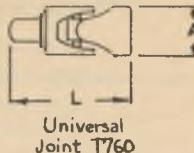
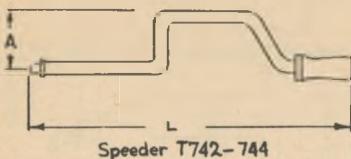
#### SEE SECTION 16 FOR SETS OF THESE TOOLS

Part No.	Bit Size	Type	A	B	C	e	L	Bit Length	Wt. Lbs.
TW4	1/8	a	21/32	1/2	1	1/2	2	1-1/4	.038
TW4BT	1/8	—	—	—	—	—	—	1-1/4	.006
TW5	5/32	a	21/32	1/2	1	1/2	2	1-1/4	.038
TW5BT	5/32	—	—	—	—	—	—	1-1/4	.008
TW6	3/16	a	21/32	1/2	1	1/2	2	1-1/4	.062
TW6BT	3/16	—	—	—	—	—	—	1-1/4	.013
TW7	7/32	a	21/32	1/2	1	1/2	2	1-1/4	.066
TW7BT	7/32	—	—	—	—	—	—	1-1/4	.016
TW8	1/4	b	21/32	21/32	31/32	—	1-31/32	1-1/4	.088
TW8BT	1/4	—	—	—	—	—	—	1-1/4	.022
TW10	5/16	b	21/32	21/32	1	—	2	1-5/16	.097
TW10BT	5/16	—	—	—	—	—	—	1-5/16	.033
TW12	3/8	b	21/32	21/32	1	—	2	1-3/8	.106
TW12BT	3/8	—	—	—	—	—	—	1-3/8	.050
Ref.: Fed. Spec. GGG-W-641b, Type 15 Holder.									
TCL3	5/32	b	21/32	21/32	1-1/16	—	2-1/16	1-3/8	.084
TCL3BT	5/32	—	—	—	—	—	—	1-3/8	.022
TCL5	1/4	b	21/32	21/32	1-1/16	—	2-1/16	1-3/8	.084
TCL5BT	1/4	—	—	—	—	—	—	1-3/8	.022
TCL7	5/16	b	21/32	21/32	1-3/16	—	2-3/16	1-1/2	.091
TCL7BT	5/16	—	—	—	—	—	—	1-1/2	.028
Ref.: Fed. Spec. GGG-W-641b, Type 14, Class 2, Form C Bit, Type 15, Holder.									
TP1	#1	b	21/32	21/32	15/16	—	1-15/16	1-1/4	.087
TP1BT	#1	—	—	—	—	—	—	1-1/4	.021
TP2	#2	b	21/32	21/32	15/16	—	1-15/16	1-1/4	.084
TP2BT	#2	—	—	—	—	—	—	1-1/4	.021
TP3	#3	b	21/32	21/32	15/16	—	1-15/16	1-1/4	.087
TP3BT	#3	—	—	—	—	—	—	1-1/4	.021
TP4	#4	b	21/32	21/32	15/16	—	1-15/16	1-1/4	.087
TP4BT	#4	—	—	—	—	—	—	1-1/4	.025
TPC	—	b	21/32	—	—	—	—	—	.062

Ref.: Fed. Spec. GGG-W-641b, Type 14, Class 2, Form A Bit; Type 15, Holder

SEE TECHNICAL SECTION (19) FOR INFORMATION ON PHILLIPS SCREWS





Part No.	A	B	D	L	Wt. Lbs.
T603	—	—	11/16	3	.147
T606	—	—	11/16	6	.262
T612	—	—	11/16	12	.500
T617	—	—	11/16	17-1/2	.750
Fed. Spec. GGG-W-641B, Type 13, Class 1.					
T701	1-1/4	1-9/16	—	7-3/8	.375
Fed. Spec. GGG-W-641B, Type 6, Class 1.					

Part No.	A	B	L	Wt. Lbs.
T720	11/16	3/8	7-5/8	.397
Fed. Spec. GGG-W-641B, Type 5.				
T730	1-7/32	13/16	8	.422
Fed. Spec. GGG-W-641B, Type 8, Class 1.				
T742	3-1/2	—	17	1.095
Fed. Spec. GGG-W-641B, Type 7, Class 1.				
T760	11/16	—	1-7/8	.106
Fed. Spec. GGG-W-641B, Type 12.				

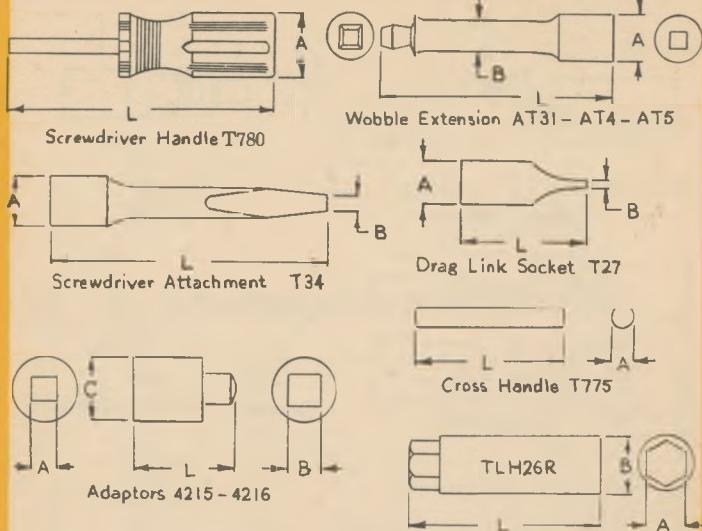
### BONNEY RATCHET

The Bonney reversible ratchet with the replaceable head. With this unique unit it is possible to perform field repairs in a matter of seconds by merely removing the snap ring and inserting the preassembled replacement unit.



T701

## HANDLES AND ATTACHMENTS—3/8 INCH DRIVE



Part No.	A	B	L	Wt. Lbs.
T34	11/16	3/8	3-1/4	.119
Ref.: GGG-W-641b, Type 14, Class 1, Form D.				
T780	1	—	5-1/8	.188
Ref.: GGG-W-641b, Type 7, Class 3.				
T775	5/16	—	6	.128
TLH26R	13/16	1-1/16	2-1/2	.281

Part No.	A	B	L	Wt. Lbs.
T27	11/16	7/64	1-3/32	.063
Ref.: GGG-W-641b, Type 14, Class 1, Form D.				
AT31	11/16	3/8	3	.128
AT4	11/16	3/8	6	.212
AT5	11/16	3/8	12	.400
Part No.	A	B	C	Wt. Lbs.
4215	3/8	1/2	21/32	1-5/16 .084
4216	3/8	1/4	5/8	1-1/64 .031
Ref.: Fed. Spec. GGG-W-641b, Type 2, Class 1.				

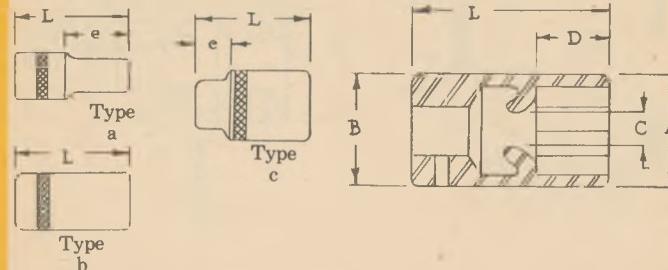


### TLH26R

Bonney Spark Plug Socket with rubber insert designed to hold the spark plug in place when removing or replacing plug. Another unique feature of the socket is the 3/4 hex which enables getting into tight spots.



## SOCKETS—1/2 INCH SQUARE DRIVE

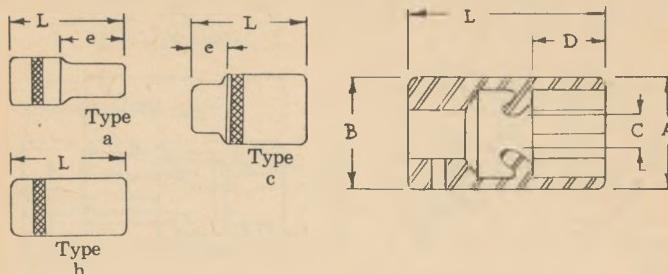


Part No.	Nom. Opening	Type	A	B	C Min.	D Min.	e	L	Weight Lbs.
<b>12 Pt. TWELVE-POINT OPENINGS</b>									
A12	3/8	a	9/16	7/8	9/32	3/8	13/16	1-1/2	106
A14	7/16	a	41/64	7/8	9/32	3/8	13/16	1-1/2	113
A16	1/2	a	47/64	7/8	11/32	13/32	13/16	1-1/2	122
A17	17/32	a	25/32	7/8	13/32	7/16	13/16	1-1/2	122
A18	9/16	a	13/16	7/8	13/32	15/32	13/16	1-1/2	119
A19	19/32	a	27/32	7/8	13/32	15/32	13/16	1-1/2	125
A20	5/8	b	7/8	—	15/32	1/2	—	1-1/2	125
A21	21/32	b	15/16	—	15/32	1/2	—	1-1/2	163
A22	11/16	b	31/32	—	15/32	1/2	—	1-1/2	163
A24	3/4	b	1-1/32	—	17/32	19/32	—	1-1/2	181
A25	25/32	b	1-1/16	—	17/32	19/32	—	1-1/2	188
A26	13/16	b	1-1/8	—	19/32	19/32	—	1-1/2	225
A28	7/8	b	1-3/16	—	21/32	5/8	—	1-1/2	244
A30	15/16	b	1-1/4	—	21/32	23/32	—	1-9/16	275
A31	31/32	c	1-9/32	1-3/16	21/32	23/32	7/16	1-5/8	266
A32	1	c	1-11/32	1-1/4	21/32	3/4	7/16	1-5/8	300
A34	1-1/16	c	1-7/16	1-3/16	21/32	3/4	1/2	1-3/4	388
A36	1-1/8	c	1-1/2	1-1/4	25/32	3/4	1/2	1-3/4	397
A38	1-3/16	c	1-5/8	1-3/8	25/32	3/4	1/2	1-3/4	438
A40	1-1/4	c	1-11/16	1-7/16	25/32	3/4	1/2	1-3/4	466

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/2" Drive.



# SOCKETS — 1/2 INCH SQUARE DRIVE



Part No.	Nom. Opening	Type	A	B	C Min.	D Min.	e	L	Weight Lbs.
----------	--------------	------	---	---	--------	--------	---	---	-------------

### SIX POINT OPENINGS REG. LENGTH

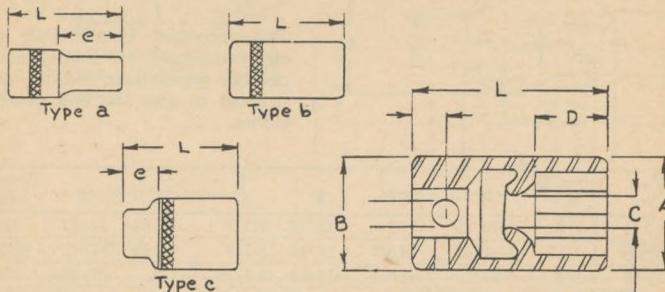
AH12	3/8	a	9/16	7/8	9/32	3/8	13/16	1-1/2	106
AH14	7/16	a	41/64	7/8	9/32	3/8	13/16	1-1/2	113
AH16	1/2	a	47/64	7/8	11/32	13/32	13/16	1-1/2	122
AH18	9/16	a	13/16	7/8	13/32	15/32	13/16	1-1/2	119
AH20	5/8	b	7/8	—	15/32	1/2	—	1-1/2	.125
AH22	11/16	b	31/32	—	15/32	1/2	—	1-1/2	.163
AH24	3/4	b	1-1/32	—	17/32	19/32	—	1-1/2	.181
AH26	13/16	b	1-1/8	—	19/32	19/32	—	1-1/2	.225
AH28	7/8	b	1-3/16	—	21/32	5/8	—	1-1/2	.244
AH30	15/16	b	1-1/4	—	21/32	23/32	—	1-9/16	.275
AH32	1	c	1-11/32	1-1/4	21/32	3/4	7/16	1-5/8	.300
AH34	1-1/16	c	1-7/16	1-3/16	21/32	3/4	1/2	1-3/4	.388
AH36	1-1/8	c	1-1/2	1-1/4	25/32	3/4	1/2	1-3/4	.397
AH38	1-3/16	c	1-5/8	1-3/8	25/32	3/4	1/2	1-3/4	.438
AH40	1-1/4	c	1-11/16	1-7/16	25/32	3/4	1/2	1-3/4	.466

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/2" Drive.

### EIGHT-POINT OPENINGS REG. LENGTH

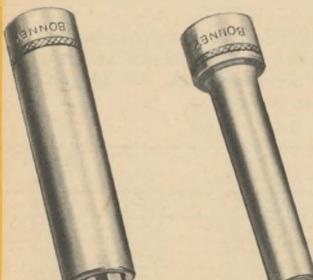
AS12	3/8	a	11/16	7/8	9/32	9/32	13/16	1-1/2	.120
AS14	7/16	a	13/16	7/8	9/32	5/16	13/16	1-1/2	.141
AS16	1/2	b	7/8	7/8	11/32	3/8	—	1-1/2	.125
AS18	9/16	b	1-1/32	1-1/32	13/32	7/16	—	1-1/2	.225
AS20	5/8	b	1-1/16	1-1/16	15/32	7/16	—	1-1/2	.225
AS22	11/16	b	1-3/16	1-3/16	15/32	7/16	—	1-1/2	.292
AS24	3/4	b	1-1/4	1-1/4	17/32	1/2	—	1-9/16	.356
AS26	13/16	c	1-3/8	1-9/32	19/32	1/2	7/16	1-5/8	.394
AS28	7/8	c	1-1/2	1-1/4	21/32	1/2	1/2	1-3/4	.509
AS30	15/16	c	1-5/8	1-3/8	21/32	1/2	1/2	1-3/4	.556
AS32	1	c	1-11/16	1-7/16	21/32	9/16	1/2	1-3/4	.663

Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/2" Drive.



Part No.	Nom. Open ing	Type	A	B	C Min.	D Min.	e	L	Weight Lbs.
<b>TWELVE-POINT OPENINGS</b>									
LD16	1/2	a	47/64	7/8	11/32	5/8	3/4	3-1/4	.294
LD18	9/16	a	51/64	7/8	13/32	5/8	3/4	3-1/4	.269
LD20	5/8	b	7/8	7/8	15/32	1/2	—	3-1/4	.238
LD22	11/16	b	15/16	15/16	15/32	11/16	—	3-1/4	.269
LD24	3/4	b	1-1/32	1-1/32	17/32	11/16	—	3-1/4	.333
LD26T	13/16	b	1-1/16	1-1/16	19/32	11/16	—	3-1/4	.350
LD28	7/8	b	1-3/16	1-3/16	21/32	11/16	—	3-1/4	.450
LD28T	7/8	a	1-9/64	1-3/16	21/32	11/16	5/8	3-1/4	.425
LD30	15/16	b	1-1/4	1-1/4	21/32	11/16	—	3-1/4	.500
LD32	1	b	1-11/32	1-11/32	21/32	3/4	—	3-1/4	.575
LD32T	1	a	1-9/32	1-11/32	21/32	3/4	1-5/16	3-1/4	.531
LD34	1-1/16	b	1-7/16	1-7/16	21/32	3/4	—	3-1/4	.713
LD36	1-1/8	b	1-1/2	1-1/2	23/32	3/4	—	3-1/4	.750

Ref.: Fed. Spec. GGG-W-641B, Type 1, Class 2.



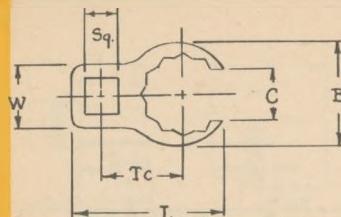
Type b

Type a

#### DEEP THROAT SOCKETS

These Bonney sockets are made of high grade alloy steel machined to close tolerances for perfect fit for specific jobs. The deep throat on these sockets allows clearances for long bolts and hard-to-get-at applications.

### CROWFOOT - 1/2 INCH SQUARE DRIVE BOX TYPE

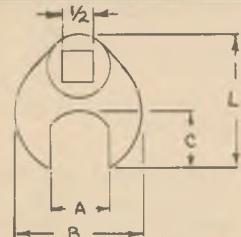


These crowfoot wrenches are specially designed to answer many unusual applications, sturdily constructed to give the best possible service.

Part No.	Opening	A	B	C	T	L	Tc	W	Weight Lbs.
AF36	1-1/8	1-19/32	7/8	15/16	2-1/8	11/64	27/32	.213	
AF38	1-3/16	1-21/32	59/64	15/16	2-1/4	13/64	27/32	.209	
AF40	1-1/4	1-3/4	61/64	15/16	2-5/16	1/4	27/32	.231	
AF42	1-5/16	1-13/16	63/64	15/16	2-5/16	1-9/32	27/32	.231	
AF44	1-3/8	1-29/32	1-5/64	1	2-3/8	1-21/64	27/32	.284	
AF46	1-7/16	1-31/32	1-5/64	1	2-1/2	1-23/64	27/32	.303	
AF48	1-1/2	2-1/32	1-9/64	1	2-1/2	1-25/64	27/32	.266	
AF50	1-9/16	2-1/8	1-11/64	1	2-5/8	1-7/16	27/32	.338	
AF52	1-5/8	2-3/16	1-1/4	1	2-5/8	1-15/32	27/32	.344	
AF54	1-11/16	2-9/32	1-21/64	1-1/16	2-3/4	1-17/32	27/32	.413	
AF56	1-3/4	2-11/32	1-21/64	1-1/16	2-7/8	1-9/16	27/32	.406	
AF58	1-13/16	2-7/16	1-23/64	1-1/16	2-7/8	1-37/64	27/32	.375	
AF60	1-7/8	2-17/32	1-25/64	1-1/8	3	1-21/32	27/32	.500	
AF62	1-15/16	2-19/32	1-29/64	1-1/8	3	1-11/16	27/32	.500	
AF64	2	2-11/16	1-37/64	1-1/8	3-1/8	1-49/64	7/8	.550	

Ref.: Fed. Spec. GGG-W-641b, Type 2, Class 1.

### CROWFOOT (CAMBER WRENCHES) - 1/2 INCH SQ. DRIVE



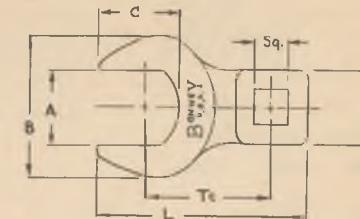
See Set Section for information pertaining to Set No. N8 which contains the necessary tools for adjusting caster-camber.

Part No.	A	B	C	L	T	Weight Lbs.
1609	1-1/4	2-5/8	1-1/4	2-3/4	3/8	.250
1611	1-5/16	2-5/8	1-1/4	2-3/4	3/8	.250
1612	1-13/32	2-5/8	1-1/4	2-3/4	3/8	.256
1613	1-7/16	2-5/8	1-1/4	2-3/4	3/8	.247
1614	1-1/2	2-5/8	1-1/4	2-3/4	3/8	.244
1615	1-3/8	2-5/8	1-1/4	2-3/4	3/8	.247

### CROWFOOT OPEN END - 1/2 INCH SQUARE DRIVE



Bonney offers a complete line of open end Crowfoot wrenches which can be used as attachments for torque wrenches and other specific requirements.



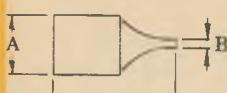
Part No.	Opening	A	B	C	L	T	Tc	W	Weight Lbs.
<b>Open End</b>									
AC30	15/16	1-15/16	1-1/16	2-13/16	1/2	1-3/4	1	.375	
AC32	1	1-15/16	1-1/8	2-13/16	1/2	1-3/4	1	.366	
AC34	1-1/16	2-1/8	1-9/32	2-29/32	5/8	1-3/4	—	.475	
AC36	1-1/8	2-1/8	1-5/16	2-29/32	5/8	1-3/4	1	.444	
AC38	1-3/16	2-1/4	1-5/16	2-31/32	5/8	1-3/4	1	.506	
AC40	1-1/4	2-1/4	1-7/16	2-31/32	5/8	1-3/4	1	.475	
AC42	1-5/16	2-1/2	1-9/16	3-19/64	5/8	2	1	.600	
AC44	1-3/8	2-1/2	1-19/32	3-19/64	5/8	2	1	.563	
AC46	1-7/16	2-3/4	1-23/32	3-3/8	5/8	2	1	.694	
AC48	1-1/2	2-3/4	1-3/4	3-3/8	5/8	2	—	.669	
AC50	1-9/16	2-15/16	1-7/8	3-17/32	5/8	2	1	.750	
AC52	1-5/8	2-15/16	1-29/32	3-17/32	5/8	2	1	.744	
AC54	1-11/16	2-15/16	1-15/16	3-17/32	5/8	2	1	.694	
AC56	1-3/4	3-1/4	2-1/16	3-7/8	5/8	2-1/4	1	.919	
AC58	1-13/16	3-1/4	2-1/8	3-7/8	5/8	2-1/4	1	.875	
AC60	1-7/8	3-1/4	2-5/32	3-7/8	5/8	2-1/4	1	.850	
AC62	1-15/16	3-9/16	2-5/16	4	5/8	2-1/4	1	1.100	
AC64	2	3-9/16	2-11/32	4	5/8	2-1/4	1	1.069	
AC66	2-1/16	3-9/16	2-3/8	4	5/8	2-1/4	1	1.025	
AC68	2-1/8	3-15/16	2-1/4	4-1/16	5/8	2-1/2	1	1.150	
AC70	2-3/16	3-15/16	2-9/32	4-1/16	5/8	2-1/2	1	1.125	
AC72	2-1/4	3-15/16	2-3/8	4-1/16	5/8	2-1/2	1	1.088	
AC74	2-5/16	4-3/8	2-19/32	4-5/16	5/8	2-1/2	1	1.500	
AC76	2-3/8	4-3/8	2-5/8	4-5/16	5/8	2-1/2	1	1.513	
AC78	2-7/16	4-3/8	2-21/32	4-5/16	5/8	2-1/2	1	1.425	
AC80	2-1/2	4-3/8	2-23/32	4-5/16	5/8	2-1/2	1	1.375	
AC82	2-9/16	4-3/8	2-3/4	4-5/16	5/8	2-1/2	1	1.388	
AC84	2-5/8	5-1/32	2-25/32	4-5/16	5/8	2-1/2	1	1.825	
AC86	2-11/16	5-1/32	2-27/32	4-5/16	5/8	2-1/2	1	1.738	
AC88	2-3/4	5-1/32	2-7/8	4-5/16	5/8	2-1/2	1	1.700	
AC90	2-13/16	5-1/32	2-29/32	4-5/16	5/8	2-1/2	1	1.650	
AC92	2-7/8	5-1/32	2-15/16	4-5/16	5/8	2-1/2	1	1.619	
AC94	2-15/16	5-1/32	2-31/32	4-5/16	5/8	2-1/2	1	1.544	
AC96	3	5-1/32	3	4-5/16	5/8	2-1/2	1	1.519	



## HANDLES AND ATTACHMENTS — 1/2 INCH SQ. DRIVE



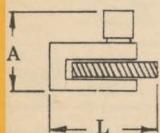
A785, A786  
A787



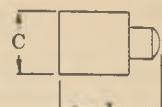
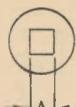
Drag Link Sockets  
A785 A786 A787



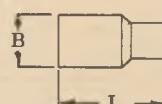
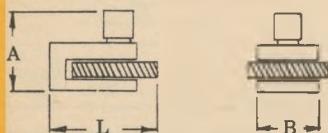
F18



Stud Wrench 2591



Adaptors 4206—4298



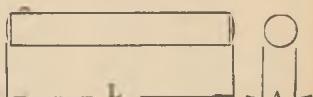
Connecting Rod Socket  
(Cadillac) 2571



4206, 4298



F18 Ford Connecting Rod Socket



Cross Handle A775



2591



A775



2571

Part No.	A	B	C	L	Wt. Lbs.
4206	1/2	3/8	15/16	1-13/32	.144
4298	1/2	3/4	1	1-7/8	1.438

Ref.: Fed. Spec. GGG-W-641B, Type 2, Class 1.

Part No.	A	L	Wt. Lbs.
A775	3/8	8	.244

Part No.	A	B	L	Wt. Lbs.
2571	7/16	15/16	1-3/8	.134
F18	9/16	7/8	1-7/32	.109
2591	1-7/8	1-1/4	2	.053

Ref.: Fed. Spec. GGG-S-775, Type 3.

A785	15/16	9/64	1-9/16	.191
A786	15/16	7/64	1-9/16	.175
A787	1	9/64	1-11/16	.241

Ref.: Fed. Spec. GGG-W-641B, Type 14, Form A, Class 1.

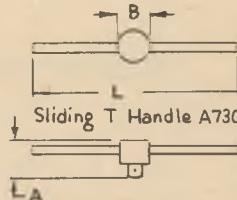
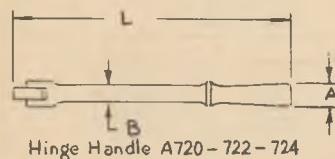
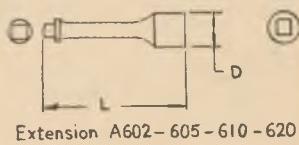
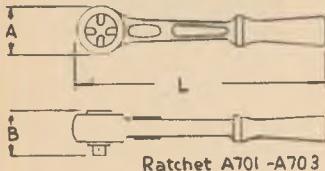
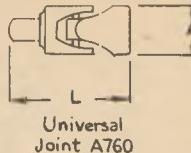
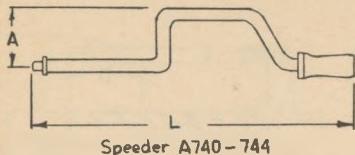
## HANDLES AND ATTACHMENTS

Pictured on this page are some of the handles and attachments featured in the Bonney line. For more information see descriptions on page covering 3/8 drive. Also shown on this page is the 2591 stud wrench which is designed to remove studs from 1/4" to 3/4" in diameter. The eccentrically mounted roller with deep milled edge provides a non-slipping, non-burring clipping device. Also included in the attachments are the 2613 through 2617 torque wrench attachments (see Section 2—Special Wrenches).



## HANDLES AND ATTACHMENTS - 1/2 INCH SQ. DRIVE

1

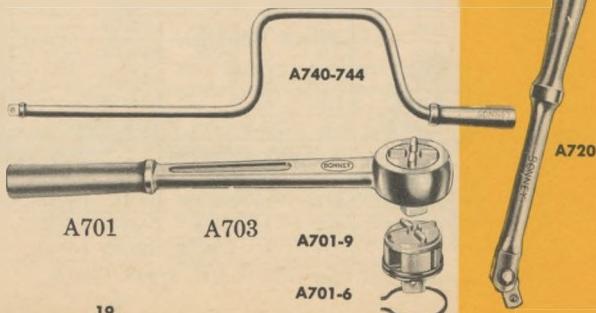


Part No.	A	B	D	L	Wt. Lbs.
A602	—	—	7/8	2	.181
A605	—	—	7/8	5	.384
A610	—	—	7/8	10	.650
A620	—	—	7/8	20	1.156
Fed. Spec. GGG-W-641B, Type 13, Class 1.					
A701	1-51/64	1-9/16	—	10	1.062
A703	1-51/64	1-9/16	—	15	1.781
Fed. Spec. GGG-W-641B, Type 6, Class 1.					
A730	1-11/16	1-11/16	—	11	1.075
Fed. Spec. GGG-W-641B, Type 8, Class 1.					

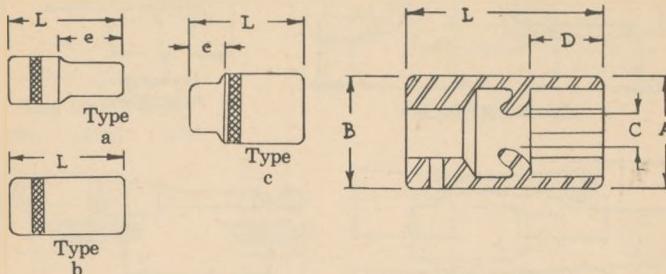
Part No.	A	B	L	Wt. Lbs.
A740	3-1/2	—	16	1.400
A744	3-1/2	—	19	1.625
Fed. Spec. GGG-W-641B, Type 7, Class 1.				
A720	15/16	9/16	12-1/2	1.431
A722	15/16	9/16	15-1/2	1.650
A724	15/16	9/16	18-1/2	1.825
Fed. Spec. GGG-W-641B, Type 5.				
A760	15/16	—	2-5/8	2.750
Fed. Spec. GGG-W-641B, Type 12.				

### BONNEY RATCHET

The Bonney reversible ratchet with the replaceable unit. With this unique unit it is possible to perform field repairs in a matter of seconds by merely removing the snap ring and inserting the preassembled replacement unit.



**SOCKETS — 3/4 INCH 12 POINT REGULAR & 6 POINT DEEP**



Part No.	Nom. Open- ing	Type	A	B	C Min.	D Min.	e	L	Wt. Lbs.
<b>TWELVE-POINT OPENINGS</b>									
R28	7/8	b	1-5/16	1-5/16	21/32	41/64	—	2	400
R30	15/16	b	1-3/8	1-3/8	21/32	23/32	—	2	406
R32	1	b	1-7/16	1-7/16	21/32	3/4	—	2	459
R34	1-1/16	b	1-9/16	1-9/16	21/32	13/16	—	2	600
R36	1-1/8	b	1-5/8	1-5/8	25/32	13/16	—	2	688
R38	1-3/16	c	1-11/16	1-9/16	25/32	7/8	5/8	2	669
R40	1-1/4	c	1-25/32	1-17/32	25/32	7/8	5/8	2-3/16	775
R42	1-5/16	c	1-7/8	1-5/8	29/32	15/16	5/8	2-3/16	900
R44	1-3/8	c	1-15/16	1-11/16	29/32	31/32	5/8	2-3/16	950
R46	1-7/16	e	2	1-5/8	29/32	1	5/8	2-3/8	1 000
R48	1-1/2	c	2-1/16	1-11/16	1-1/32	1-1/16	5/8	2-3/8	1.075
R50	1-9/16	c	2-1/8	1-3/4	1-1/32	1-3/32	5/8	2-3/8	1.113
R52	1-5/8	c	2-1/4	2	1-1/32	1-1/8	5/8	2-3/8	1.369
R54	1-11/16	c	2-1/4	1-5/8	—	1-1/8	1	2-7/16	1.000
R56	1-3/4	c	2-5/16	1-11/16	—	1-3/8	1	2-1/2	1.150
R58	1-13/16	c	2-3/8	1-3/4	—	1-5/8	1	2-3/4	1.400
R60	1-7/8	c	2-15/32	1-25/32	—	1-1/2	1-1/16	2-7/8	1.463
R64	2	c	2-19/32	1-3/4	—	1-5/8	1-1/16	3	1.531
R66	2-1/16	c	2-7/8	1-15/16	—	1-5/8	1-9/32	3-3/16	2.363
R68	2-1/8	c	2-7/8	1-15/16	—	1-5/8	1-3/16	3-1/8	2.200
R70	2-3/16	c	3	1-15/16	—	1-5/8	1-5/16	3-3/16	2.488
R72	2-1/4	c	3	1-15/16	—	1-3/4	1-3/16	3-1/4	2.200

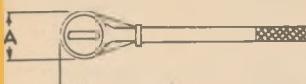
Ref.: Fed. Spec. GGG-W-641b, Type 1, Class 1.

**SIX-POINT OPENINGS**

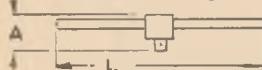
RLH32	1	b	1-1/2	1-1/2	31/32	13/16	—	3-1/2	963
RLH34	1-1/16	b	1-9/16	1-9/16	1-1/32	7/8	—	3-1/2	1.025
RLH36	1-1/8	b	1-5/8	1-5/8	1-3/32	7/8	—	3-1/2	1.075
RLH40	1-1/4	b	1-25/32	1-25/32	1-7/32	15/16	—	3-1/2	1.306

Ref.: Fed. Spec. GGG-W-641b, Type 1, Class 2.

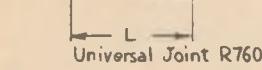
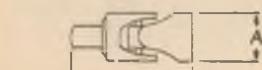




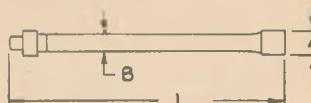
Ratchet R701



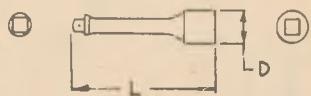
Sliding T Handle R730



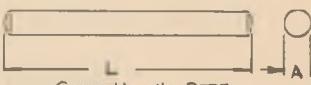
Universal Joint R760



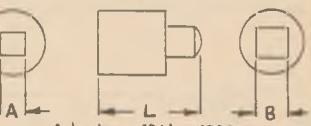
Hinge Handle R720



Extension R604-609-617



Cross Handle R775



Adaptors 4211-4299



R760



R604



R617



R720



R730

Part No.	A	B	D	L	Wt. Lbs.
R604	—	—	1-1/2	4	.875
R609	—	—	1-1/2	8-7/16	1.538
R617	—	—	1-1/2	17	2.655
Ref.: Fed. Spec. GGG-W-641B, Type 13, Class 1.					
R701	2-29/32	2-1/2	—	20	7.375
Ref.: Fed. Spec. GGG-W-641B, Type 6, Class 1.					

Part No.	A	B	C	L	Wt. Lbs.
4211	3/4	1	1-3/8	2-5/16	.600
4299	3/4	1/2	1-5/16	1-15/16	.344
Ref.: Fed. Spec. GGG-W-641B, Type 2, Class 1.					

R701

Part No.	A	B	L	Wt. Lbs.
R720	1-1/4	7/8	22	4.062
Fed. Spec. GGG-W-641B, Type 5.				
R730	2-23/64	1-5/8	20	4.062
Fed. Spec. GGG-W-641B, Type 8, Class 1.				
R760	1-7/16	—	4	1.000
Fed. Spec. GGG-W-641B, Type 12.				
R775	11/16	—	16-3/8	1.713

**BONNEY RATCHET**

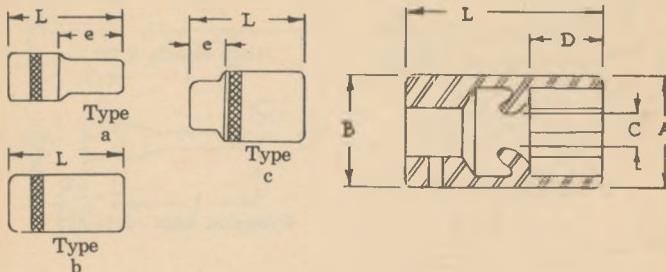
The Bonney reversible ratchet with the replaceable unit. With this unique unit it is possible to perform field repairs in a matter of seconds by merely removing the snap ring and inserting the preassembled replacement unit. R701-6



R701-9



**SOCKETS—1 INCH SQUARE DRIVE 6 POINT REGULAR**



**BONNEY SOCKETS**

Available in various styles, made of highest grade alloy steel, polished, nickel-chrome plated and machined to close tolerances for perfect fit.

Part No.	Nom. Open- ing	Type	A	B	C Min.	D Min.	e	L	Wt. Lbs.
<b>TWELVE-POINT OPENINGS</b>									
X46	1-7/16	c	2	1-11/16	29/32	1	3/4	2-5/16	.863
X48	1-1/2	c	2-1/16	1-3/4	1-1/32	1	3/4	2-3/8	.950
X52	1-5/8	c	2-1/4	1-3/4	1-1/32	1-1/16	3/4	2-1/2	1.144
X58	1-13/16	c	2-5/8	1-7/8	1-5/32	1-7/8	13/16	3-3/16	1.413
X60	1-7/8	c	2-5/8	2-5/16	1-9/32	1-5/8	15/16	2-15/16	2.025
X64	2	c	2-27/32	1-7/8	1-9/32	2-1/8	15/16	3-15/32	2.513
X70	2-3/16	c	3	2-1/4	1-17/32	1-11/16	1-1/4	3-3/16	2.563
X72	2-1/4	c	3-1/8	2	1-17/32	2-1/4	1-9/16	3-13/16	2.675
X74	2-5/16	c	3-3/16	2	1-17/32	2-1/4	15/16	3-7/8	2.719
X76	2-3/8	c	3-1/4	2	1-17/32	2-1/4	15/16	3-15/16	2.944
X78	2-7/16	c	3-7/16	2	1-21/32	2-3/8	15/16	4-1/8	3.044
X80	2-1/2	c	3-5/8	2	1-21/32	2-5/16	1	4-5/16	3.094
X82	2-9/16	c	3-3/8	2-1/4	1-21/32	1-7/8	1-5/16	3-1/2	3.175
X84	2-5/8	c	3-3/4	2	1-25/32	2-1/2	1	4-1/2	3.563
X88	2-3/4	c	4	2	1-25/32	2-1/2	1-11/16	4-13/16	4.369
X94	2-15/16	c	4-3/16	2	1-29/32	2-9/16	1-11/16	4-7/8	5.250
X96	3	c	4-9/32	2	2-1/32	2-19/32	1-23/32	4-29/32	8.250
X100	3-1/8	c	4-3/8	2	2-1/32	2-5/8	1-23/32	4-15/16	8.948

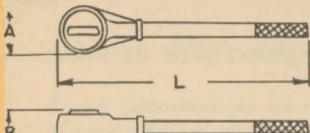
Ref.: Fed. Spec. GGG-W-641b, Type 1, Class 1.



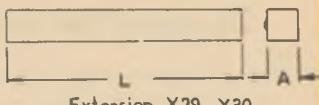


## HANDLES AND ATTACHMENTS—1 INCH SQ. DRIVE

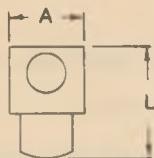
1



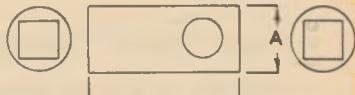
X701 Bonney Ratchet



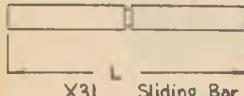
Extension X29 X30



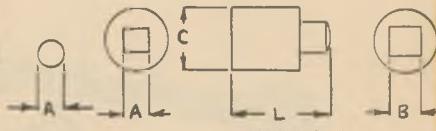
Drive Head Male X32



Drive Head Female X33



X31 Sliding Bar



4213 Adaptor



4213



X32



X33

Part No.	A	B	C	L	Wt. Lbs.
4213	1	3/4	1-5/16	2-13/16	1.375
Fed. Spec.	GGG-W-641b, Type 2, Class 1.				
X29	1	—	—	8-1/2	2.313
X30	1	—	—	17-1/2	4.781
X701	2-29/32	2-1/2	—	20	7.375
Fed. Spec.	GGG-W-641b, Type 6, Class 1.				

Part No.	A	L	Weight Lbs.
X32	1-15/16	2-13/16	1.200
X33	1-15/16	3-1/2	1.913
X31	1	22	4.825

X29 X30



BONNEY

X701

**BONNEY RATCHET**

The Bonney Reversible Ratchet with the Replaceable Unit. With this unique unit it is possible to perform field repairs in a matter of seconds, by merely removing the snap ring and inserting the pre-assembled replacement unit.



X701-9

X701-6

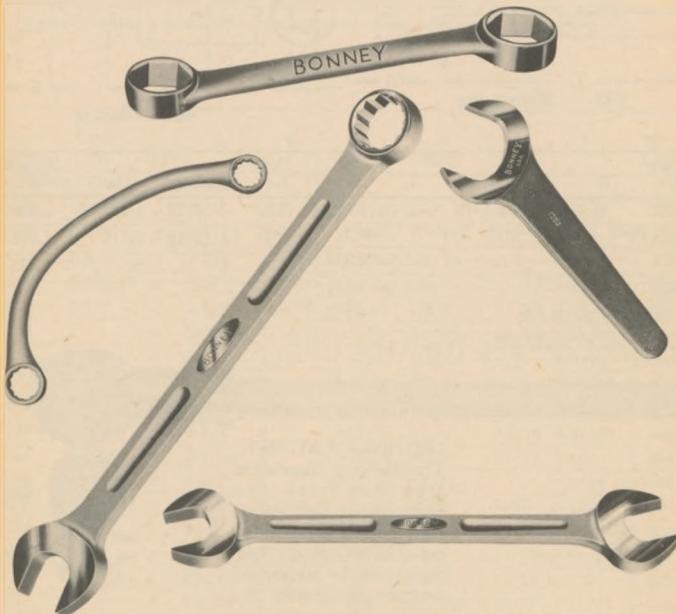
X31



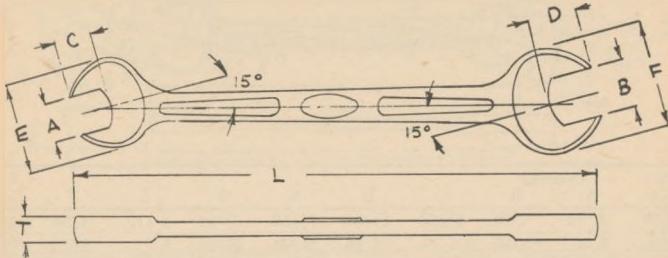
## *Designed for long, dependable service . . .*

The Bonney "streamlined" wrench is truly an outstanding wrench design. It is light in weight, well balanced and has no sharp edges to hamper its "quality appearance." Made of high grade alloy steel; drop forged, heat treated and nickel-chrome plated under exacting specifications. All openings machined to close tolerances for the best possible fit on all jobs.

- FAMOUS BONNEY "STREAMLINED" WRENCHES
- COMPLETE RANGE OF SIZES AND TYPES
- SPECIAL WRENCHES FOR VARIOUS ADJUSTMENTS
- BUILT-IN CRAFTSMANSHIP AND QUALITY



Bonney offers a complete line of wrenches for all types of service. All inquiries are answered immediately.



Part No.	Opening			D	E	F	L	T	Wt. Lbs.
	A	B	C						
E810	1/4	5/16	1/4	5/16	9/16	11/16	4-1/4	5/32	.025
E1011	5/16	11/32	5/16	13/32	11/16	13/16	4-3/4	3/16	.060
E1012	5/16	3/8	5/16	13/32	11/16	13/16	4-3/4	3/16	.060
E1214	3/8	7/16	25/64	29/64	13/16	15/16	5-1/4	7/32	.075
E1216	3/8	1/2	27/64	33/64	15/16	1-1/16	5-3/4	15/64	.113
E1416	7/16	1/2	29/64	33/64	15/16	1-1/16	5-3/4	15/64	.113
E1418	7/16	9/16	29/64	37/64	15/16	1-9/64	6	1/4	.134
E1618	1/2	9/16	33/64	37/64	1-1/16	1-3/16	6-1/4	1/4	.147
E1619	1/2	19/32	33/64	39/64	1-1/16	1-3/16	6-1/4	1/4	.188
E1820	9/16	5/8	37/64	41/64	1-3/16	1-5/16	7	17/64	.122
E1822	9/16	11/16	39/64	45/64	1-5/16	1-7/16	7-3/4	9/32	.263
E1925	19/32	25/32	39/64	13/16	1-1/4	1-5/8	8-3/16	21/64	.319
E2022	5/8	11/16	41/64	45/64	1-5/16	1-7/16	7-3/4	9/32	.263
E2024	5/8	3/4	41/64	13/16	1-1/4	1-5/8	8-3/16	21/64	.444
E2224	11/16	3/4	45/64	25/32	1-7/16	1-9/16	8-1/2	5/16	.325
E2426	3/4	13/16	49/64	27/32	1-9/16	1-11/16	9-1/4	11/32	.406
E2428	3/4	7/8	49/64	29/32	1-9/16	1-13/16	9-5/8	11/32	.488
E2628	13/16	7/8	27/32	29/32	1-11/16	1-13/16	10	23/64	.538
E2830	7/8	15/16	29/32	31/32	1-13/16	1-15/16	10-3/4	3/8	.625
E2832	7/8	1	29/32	1-1/32	1-13/16	2	11-1/8	13/32	.725
E3032	15/16	1	31/32	1-1/32	1-15/16	2-1/16	11-1/2	13/32	.794
E3236	1	1-1/8	1-3/32	1-5/32	2-1/8	2-5/16	12-5/8	7/16	1.030
E3436	1-1/16	1-1/8	1-3/32	1-5/32	2-1/8	2-5/16	12-5/8	7/16	1.019
E3440	1-1/16	1-1/4	1-5/32	1-23/64	2-1/4	2-5/8	13-5/8	1/2	1.450
E3640	1-1/8	1-1/4	1-5/32	1-23/64	2-1/4	2-5/8	13-5/8	1/2	1.450
E4042	1-1/4	1-5/16	1-9/32	1-1/2	2-17/32	2-7/8	14-3/4	17/32	1.644
E4044	1-1/4	1-3/8	1-9/32	1-1/2	2-17/32	2-7/8	14-3/4	17/32	1.828

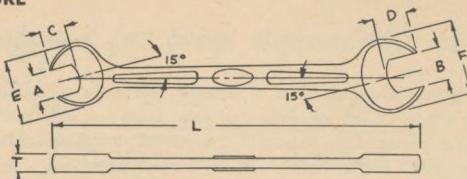
Ref.: Fed. Spec. GGG-W-636a—Type IV—Engineer's Wrench, Double Head, Open End 15°.

See Section 16 for sets of these streamlined wrenches in boxes and plastic rolls.

## MINIATURE & ELECTRICAL WRENCHES OPEN END



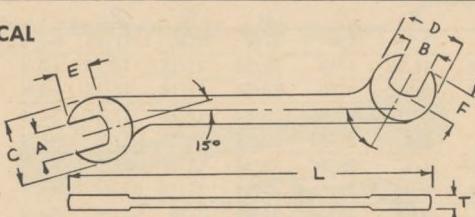
### MINIATURE



Part No.	A	B	C	D	E	F	L	T	Wt. Lbs.
H10	3/16	7/32	13/64	17/64	25/64	29/64	2-1/2	7/64	.013
H12	1/4	9/32	17/64	5/16	33/64	37/64	3	5/32	.028
H14	5/16	11/32	11/32	3/8	41/64	23/32	3-3/4	3/16	.047
H16	3/8	7/16	13/32	15/32	25/32	57/64	4-3/32	7/32	.081
H18	13/32	15/32	7/16	1/2	25/32	57/64	4-3/32	7/32	.078

Ref.: Fed. Spec. GGG-W-636a, Type 6, Style D.

### ELECTRICAL



Part No.	A	B	C	D	E	F	L	T	Wt. Lbs.
E14	13/64	15/64	1/2	1/2	15/64	17/64	3	7/64	.016
E16	15/64	13/64	1/2	1/2	17/64	15/64	3	7/64	.019
E18	7/32	1/4	1/2	1/2	1/4	9/32	3	7/64	.019
E20	1/4	7/32	1/2	1/2	9/32	1/4	3	7/64	.016
E22	9/32	5/16	5/8	5/8	21/64	23/64	3-1/2	1/8	.028
E24	5/16	9/32	5/8	5/8	23/64	21/64	3-1/2	1/8	.028
E26	11/32	3/8	3/4	3/4	25/64	27/64	4	9/64	.041
E28	3/8	11/32	3/4	3/4	27/64	25/64	4	9/64	.044
E30	7/16	1/2	31/32	31/32	15/32	17/32	4-1/2	5/32	.072

Ref.: Fed. Spec. GGG-W-636a, Type 6, Class A.

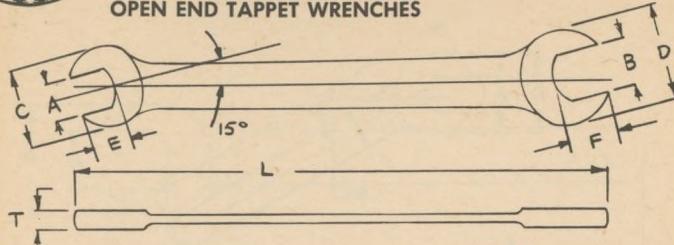
### SPECIAL APPLICATIONS

Listed above are the Bonney miniature wrench and electrical wrench in various sizes. The miniature wrench is ideal for adjustments on generators, radios, distributors, and other parts that are small and have limited space in which to work. The electrical wrench is designed with a 15 degree angle head on one end and a 60 degree angle head on the other end. These wrenches are especially useful for adjustments on accessories and electrical apparatus where small parts and limited space are confronted. Both of these wrenches are drop forged of high grade alloy steel and nickel chrome plated in the usual "quality" manufacturing process always associated with Bonney.



## OPEN END WRENCHES

## OPEN END TAPPET WRENCHES



2

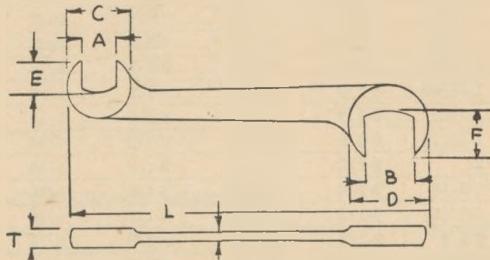
Part No.	A	B	C	D	E	F	L	T	Wt. Lbs.
420	7/16	17/32	1-3/16	1-1/4	1/2	19/32	9-1/2	5/32	.191
420A	7/16	1/2	1-3/16	1-1/4	1/2	9/16	9-1/2	5/32	.188
422	1/2	9/16	1-3/16	1-1/4	9/16	5/8	9-1/2	5/32	.184
424	5/8	11/16	1-7/16	1-1/2	11/16	3/4	9-1/2	3/16	.219
424A	5/8	3/4	1-7/16	1-1/2	11/16	13/16	9-1/2	3/16	.272
425	3/4	13/16	1-5/8	1-25/32	13/16	7/8	9-1/2	7/32	.359
425A	11/16	3/4	1-5/8	1-25/32	13/16	7/8	9-1/2	7/32	.375
426	3/4	7/8	1-5/8	1-25/32	13/16	15/16	9-1/2	7/32	.344
428	15/16	1	1-15/16	2-1/16	1	1-1/16	9-1/2	7/32	.409

Ref.: Fed. Spec. GGG-W-636a, Type 10, Class 1.



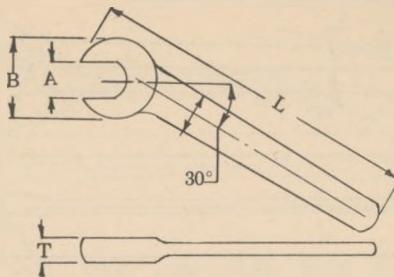
## OPEN END RIGHT ANGLE WRENCHES

These wrenches are also necessary for refrigeration service work. Mechanics everywhere find these wrenches extremely handy for carburetor work on many makes of cars and trucks. All of the above wrenches are drop forged from high alloy steel and have nickel chrome plated heads.



Part No.	A	B	C	D	E	F	L	T	Wt. Lbs.
2723	3/8	7/16	15/16	1-5/32	1/2	9/16	4-1/2	7/32	.119
2725B	1/2	9/16	1-1/4	1-3/8	5/8	11/16	5-1/2	15/64	.181
2729	5/8	3/4	1-9/16	1-21/32	13/16	7/8	7-1/2	5/16	.409

## OPEN END 30° SERVICE WRENCHES



**DROP FORGED OF ALLOY STEEL. NICKEL CHROME PLATED  
WITH POLISHED HEADS**



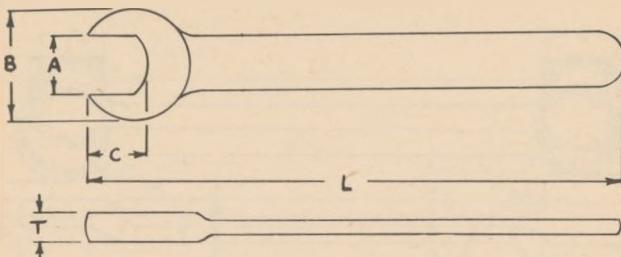
Part No.	A	B	C	L	T	Weight Lbs.
1224	8/4	1-11/16	7/8	6-1/4	1/4	.219
1224A	1-1/8	1-7/8	15/16	6-7/8	1/4	.281
1226	13/16	1-11/16	15/16	6-1/4	1/4	.250
1228	7/8	1-11/16	15/16	6-1/4	1/4	.231
1230	15/16	1-7/8	15/16	6-7/8	1/4	.294
1232	1	1-7/8	15/16	6-7/8	1/4	.294
1232A	1-1/32	1-11/16	15/16	6-1/4	1/4	.250
1234	1-1/16	1-7/8	15/16	6-7/8	1/4	.294
1236	1-1/8	2-1/16	15/16	7	1/4	.325
1236S	1-5/16	2-1/16	1	7	1/4	.313
1238	1-3/16	2-1/16	15/16	7	1/4	.325
1240	1-1/4	2-1/16	1	7	1/4	.319
1242	1-5/16	2-1/2	1-1/4	7-5/8	9/32	.475
1244	1-3/8	2-1/2	1-1/4	7-5/8	9/32	.472
1246	1-7/16	2-1/2	1-1/4	7-5/8	9/32	.494
1248	1-1/2	2-1/2	1-1/4	7-5/8	9/32	.463
1250	1-9/16	2-5/8	1-1/4	7-5/8	9/32	.500
1252	1-5/8	2-5/8	1-1/4	7-5/8	9/32	.513
1256	1-3/4	3-1/8	1-3/4	8-1/2	5/16	.750
1258	1-13/16	3-1/8	1-3/4	8-1/2	5/16	.738
1260	1-7/8	3-1/8	1-3/4	8-1/2	5/16	.725
1262	1-15/16	3-1/8	1-3/4	8-1/2	5/16	.725
1264	2	3-1/2	1-3/4	8-1/2	5/16	.769
1264S	2-9/16	3-1/2	1-3/4	8-1/2	5/16	.675
1266	2-1/16	3-1/2	1-3/4	8-1/2	5/16	.756
1268	2-1/8	3-1/2	1-3/4	8-1/2	5/16	.744
1272	2-1/4	3-1/2	1-3/4	8-1/2	5/16	.744
1272S	2-1/2	3-1/2	1-3/4	8-1/2	5/16	.681
1276	2-3/8	3-1/2	1-3/4	8-1/2	5/16	.713

Ref.: Fed. Spec. GGG-W-636a, Type 17, Class 3.



## OPEN END STRAIGHT SERVICE WRENCHES

2



Part No.	A	B	C	L	T	Weight Lbs.
1932	1	2-1/2	1-1/4	12-1/4	1/4	.694
1934	1-1/16	2-1/2	1-1/4	12-1/4	1/4	.656
1936	1-1/8	2-1/2	1-1/4	12-1/4	1/4	.644
1940	1-1/4	2-1/2	1-1/4	12-1/4	1/4	.625
1944	1-3/8	2-1/2	1-1/4	12-1/4	1/4	.625
1946	1-7/16	2-7/8	1-9/16	12-1/4	9/32	.788
1948	1-1/2	2-7/8	1-9/16	12-1/4	9/32	.756
1950	1-9/16	2-7/8	1-9/16	12-1/4	9/32	.738
1952	1-5/8	2-7/8	1-9/16	12-1/4	9/32	.725
1954	1-11/16	2-7/8	1-9/16	12-1/4	9/32	.731
1956	1-3/4	3-7/16	1-3/4	12-1/4	5/16	.994
1958	1-13/16	3-7/16	1-3/4	12-1/4	5/16	.988
1960	1-7/8	3-7/16	1-3/4	12-1/4	5/16	.956
1964	2	3-7/16	1-3/4	12-1/4	5/16	.950
1966	2-1/16	3-7/16	1-3/4	12-1/4	5/16	.963
1968	2-1/8	3-7/16	1-3/4	12-1/4	5/16	.925
1970	2-3/16	3-7/16	1-3/4	12-1/4	5/16	.925
1972	2-1/4	3-7/16	1-7/8	12-1/4	5/16	.925

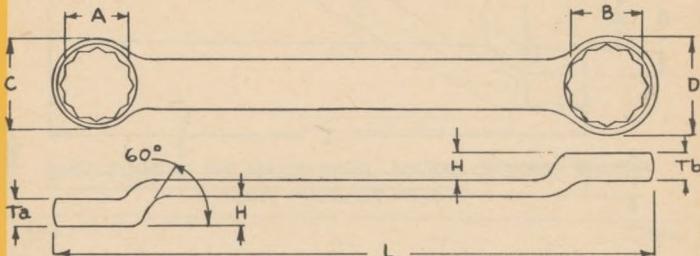
Ref.: Fed. Spec. GGG-W-636a, Type 17, Class 2.



## SINGLE HEAD SERVICE WRENCHES

These wrenches have especially thin heads for use in narrow openings. The following wrenches are exceptionally useful in refrigeration work. Wrench #1964 is used on the Superior packless valve. Wrenches 1252, 1244, 1240, and 1236 are used on Sporlan expansion valves. The 1200 series wrenches are especially designed for adjustments where a short, thin wrench is required.

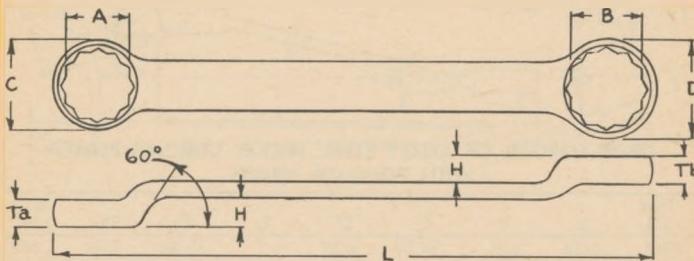
## BOX END DOUBLE OFFSET LONG SERIES 12 POINT



Part No.	Opening	A	B	C	D	H	L	Ta	Tb	Wt. Lbs.
2804L	3/8	7/16	9/16	21/32	3/4	8-1/2	9/32	5/16	5/16	.181
2804C	7/16	1/2	21/32	47/64	3/4	8-3/4	5/16	11/32	1/2	.244
2805L	1/2	9/16	47/64	55/64	13/16	9	5/16	3/8	3/8	.300
2806L	9/16	5/8	53/64	29/32	7/8	9-1/2	3/8	7/16	7/16	.369
2807	5/8	3/4	29/32	1-5/64	1	11	7/16	1/2	1/2	.531
2807A	5/8	11/16	29/32	1-5/64	1	11	7/16	1/2	1/2	.556
2808B	11/16	25/32	1	1-1/8	1-1/8	11-1/2	1/2	9/16	9/16	.669
2808	3/4	7/8	1-5/64	1-1/4	1-1/8	11-1/2	1/2	5/8	5/8	.775
2808F	3/4	13/16	1-5/64	1-11/64	1-1/8	11-1/2	1/2	9/16	9/16	.713
2809C	13/16	7/8	1-11/64	1-1/4	1-1/4	12-1/2	1/2	9/16	9/16	.744
2809	7/8	15/16	1-1/4	1-11/32	1-1/4	12-1/2	5/8	21/32	21/32	.900
2810C	7/8	1	1-11/32	1-7/16	1-3/8	13-1/2	5/8	11/16	11/16	1.106
2810	15/16	1	1-11/64	1-7/16	1-3/8	13-1/2	5/8	11/16	11/16	1.100
2811	1	1-1/8	1-7/16	1-19/32	1-1/2	14-1/2	11/16	3/4	1.331	
2811A	1	1-1/16	1-7/16	1-19/32	1-1/2	14-1/2	11/16	3/4	1.469	
2812B	1-1/16	1-1/4	1-5/8	1-55/64	1-5/8	16-1/2	13/16	7/8	2.000	
2812D	1-1/16	1-1/8	1-5/8	1-55/64	1-5/8	16-1/2	13/16	7/8	2.044	
2812C	1-1/8	1-1/4	1-5/8	1-55/64	1-5/8	16-1/2	13/16	7/8	1.975	
2812	1-1/4	1-3/8	1-49/64	2-3/32	1-5/8	18	7/8	29/32	2.519	
2812A	1-1/4	1-7/16	1-49/64	2-3/32	1-5/8	18	7/8	29/32	2.500	

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 1.



**SHORT SERIES**

Part No.	A	B	C	D	H	L	Ta	Tb	Wt. Ozs.
2803	5/16	3/8	15/32	9/16	1/2	4-1/2	3/16	7/32	.050
2804	3/8	7/16	9/16	21/32	1/2	4-3/4	1/4	9/32	.069
2805	1/2	9/16	47/64	53/64	1/2	5-3/8	21/64	23/64	.125
2805A	7/16	1/2	21/32	47/64	1/2	5-1/8	19/64	21/64	.094
2806	9/16	5/8	53/64	29/32	1/2	5-3/4	23/64	25/64	.150
2806B	5/8	3/4	29/32	1-5/64	1/2	6-3/16	11/32	13/32	.253
2806C	5/8	11/16	29/32	1	1/2	6	25/64	27/64	.191

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 2.

**MINIATURE SERIES**

E40	3/16	13/64	19/64	21/64	3/16	2-7/8	1/8	9/64	.009
E42	7/32	15/64	11/32	3/8	1/4	3-1/8	1/8	9/64	.019
E44	1/4	9/32	25/64	7/16	9/32	3-3/8	9/64	5/32	.031
E46	5/16	11/32	15/32	35/64	11/32	3-3/4	5/32	3/16	.041

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 2, Style A.

**SHORT SERIES**

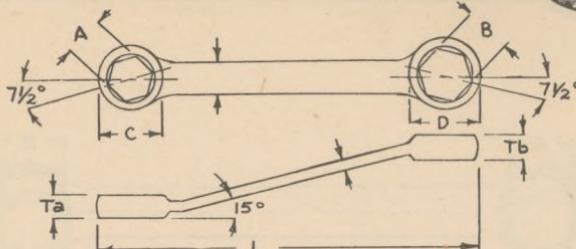
These wrenches are drop forged of high alloy steel and undergo the usual fine craftsmanship in finishing and plating which has been a must at Bonney for over 80 years. The box walls are especially thin but have the usual strength found in Bonney wrenches. See Section 16 for sets.

**MINIATURE SERIES**

These wrenches are designed for working on small parts in limited space, ideal for servicing generator, carburetor and other types of electrical and ignition work. See Section 16 for information on the N80R set of these small wrenches.



SHORT & LONG SERIES 15° ANGLE 6 POINT & 12 POINT



DROP FORGED OF ALLOY STEEL. NICKEL CHROME PLATED  
WITH POLISHED HEADS

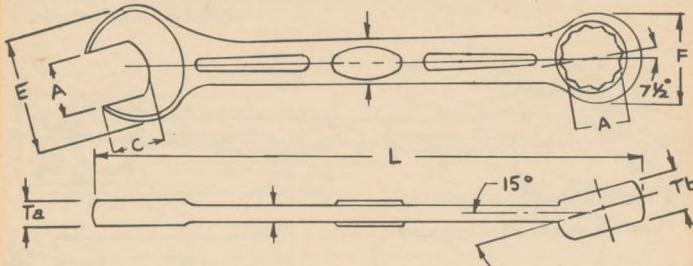
Part No.	A	B	C	D	L	Ta	Tb	Wt. Lbs.
2885	5/16	3/8	15/32	9/16	4	13/64	7/32	.038
*2885H	5/16	3/8	15/32	9/16	4	13/64	7/32	.044
2886	3/8	7/16	9/16	21/32	4-1/2	1/4	9/32	.056
*2886H	3/8	7/16	9/16	21/32	4-1/2	1/4	9/32	.056
2887	7/16	1/2	21/32	47/64	5	19/64	21/64	.091
*2887H	7/16	1/2	21/32	47/64	5	19/64	21/64	.097
2888	1/2	9/16	47/64	53/64	5-1/2	21/64	23/64	.119
*2888H	1/2	9/16	47/64	53/64	5-1/2	21/64	23/64	.122
2889	9/16	5/8	53/64	29/32	6	23/64	25/64	.153
*2889H	9/16	5/8	53/64	29/32	6	23/64	25/64	.163

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 1.

\*Denotes 6 Point, others 12 Point.

2890	3/8	7/16	9/16	21/32	7-5/8	7/32	9/32	125
2890C	7/16	1/2	21/32	47/64	7-3/4	9/32	5/16	.200
2890H	3/8	7/16	9/16	21/32	7-5/8	7/32	9/32	.128
2891	1/2	9/16	47/64	55/64	8-5/8	5/16	3/8	.303
2891C	9/16	5/8	53/64	29/32	9-1/4	11/32	3/8	.322
2891H	1/2	9/16	47/64	21/32	8-5/8	5/16	3/8	.303
2892	5/8	11/16	29/32	1-5/64	9-5/8	3/8	7/16	.403
2892B	5/8	3/4	29/32	1-5/64	9-5/8	3/8	7/16	.403
2892H	5/8	11/16	29/32	1-5/64	9-5/8	3/8	7/16	.406
2893	3/4	13/16	1-5/64	1-1/4	11	7/16	15/32	.569
2893B	3/4	13/16	1-5/64	1-1/4	11	7/16	15/32	.563
2894	7/8	1	1-11/32	1-7/16	13-1/4	1/2	17/32	.913
2894A	7/8	15/16	1-11/32	1-7/16	13-1/4	1/2	17/32	.881
2894B	15/16	1	1-11/32	1-7/16	13-1/4	1/2	17/32	.913
2895B	15/16	1-1/16	1-11/32	1-1/2	14-1/2	1/2	17/32	1.100
2895C	1	1-1/8	1-1/2	1-19/32	15-1/2	17/32	9/16	1.313
2895E	1-1/16	1-1/4	1-19/32	1-55/64	15-3/4	19/32	5/8	1.538
2896	1-1/8	1-3/8	1-19/32	1-15/16	16-1/16	5/8	21/32	1.588
2897	1-1/4	1-7/16	1-49/64	2-1/64	18-1/16	11/16	23/32	1.975
2898	1-5/16	1-1/2	2-1/16	2-5/16	19	3/4	25/32	2.575
2898A	1-7/16	1-5/8	2-1/16	2-5/16	19	3/4	25/32	2.400

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 1, Style A.



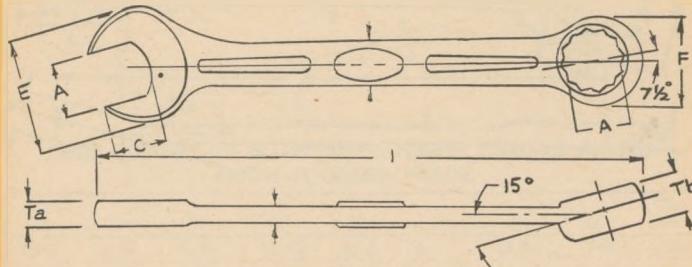
Part No.	A	C	E	F	L	Ta	Tb	Wt. Lbs.
*1158	1/4	9/32	19/32	7/16	3	5/32	3/16	.025
*1158A	9/32	9/32	19/32	7/16	3	5/32	3/16	.025
1159	5/16	21/64	25/32	1/2	3-3/4	11/64	7/32	.044
1159A	11/32	21/64	25/32	1/2	3-3/4	11/64	7/32	.044
1160	3/8	25/64	27/32	9/16	4-1/2	3/16	1/4	.063
1161	7/16	29/64	29/32	21/32	5-3/16	7/32	5/16	.081
1162	1/2	33/64	1-1/16	47/64	5-15/16	1/4	5/16	.128
1163	9/16	37/64	1-7/32	53/64	6-11/16	9/32	11/32	.181
1164	5/8	41/64	1-11/32	29/32	7-7/16	5/16	3/8	.264
1165	11/16	45/64	1-15/32	1	8-5/16	11/32	13/32	.338
1166	3/4	25/32	1-9/16	1-5/64	9-3/16	3/8	7/16	.406
1167	7/8	29/32	1-13/16	1-1/4	11-1/4	7/16	17/32	.675
1167A	18/16	27/32	1-11/16	1-11/64	10-1/4	13/32	31/64	.575
1168	15/16	31/32	1-15/16	1-11/32	12-5/16	15/32	39/64	.881
1170	1	1-1/32	2-1/32	1-7/16	13-5/16	1/2	11/16	1.038
1171	1-1/16	1-3/16	2-7/32	1-19/32	15	5/8	25/32	1.706
1172	1-1/8	1-3/16	2-7/32	1-19/32	15	5/8	25/32	1.694
1173	1-1/4	1-3/8	2-11/16	1-55/64	18	11/16	27/32	2.608
1174	1-5/16	1-3/8	2-11/16	1-55/64	18	11/16	27/32	2.675
1176	1-7/16	1-1/2	3-1/16	2-3/16	21-1/4	3/4	15/16	4.175
1178	1-1/2	1-5/8	3-1/16	2-3/16	21-1/4	3/4	15/16	4.000
1180	1-5/8	1-11/16	3-1/4	2-5/16	27	17/32	7/8	3.813

Ref.: Fed. Spec. GGG-W-636a—Type 3.

\*Single Hex (6 Point) Openings; All Others 12 Point Openings.

**SET INFORMATION**

The above listed tools are drop forged of high grade alloy steel. Nickel chrome plated and highly polished. See Section 16 for information on sets including many of the above listed wrenches.

12 POINT  
DOUBLE  
HEX

**DROP FORGED OF ALLOY STEEL. NICKEL CHROME PLATED  
WITH POLISHED HEADS**

Part No.	A	C	E	F	L	Ta	Tb	Wt. Lbs.
<b>TWELVE-POINT OPENINGS</b>								
1112	3/8	25/64	27/32	9/16	6-17/32	3/16	1/4	.078
1114	7/16	29/64	29/32	21/32	7-3/8	7/32	5/16	.119
1116	1/2	33/64	1-1/16	47/64	8-7/32	1/4	5/16	.163
1118	9/16	37/64	1-7/32	53/64	9-1/16	9/32	11/32	.244
1120	5/8	41/64	1-11/32	29/32	9-29/32	5/16	3/8	.316
1122	11/16	45/64	1-15/32	1	10-3/4	11/32	13/32	.419
1124	3/4	25/32	1-9/16	1-5/64	11-19/32	3/8	7/16	.519
<b>SIX-POINT OPENINGS</b>								
1112H	3/8	25/64	27/32	9/16	6-17/32	3/16	1/4	.078
1114H	7/16	29/64	29/32	21/32	7-3/8	7/32	5/16	.119
1116H	1/2	33/64	1-1/16	47/64	8-7/32	1/4	5/16	.163
1118H	9/16	37/64	1-7/32	53/64	9-1/16	9/32	11/32	.244
1120H	5/8	41/64	1-11/32	29/32	9-29/32	5/16	3/8	.319
1122H	11/16	45/64	1-15/32	1	10-3/4	11/32	13/32	.419
1124H	3/4	25/32	1-9/16	1-5/64	11-19/32	3/8	7/16	.500

Ref.: Fed. Spec. GGG-W-636a, Type 3.

Note: H indicates Single Hexagon Opening. **SIX-POINT OPENINGS**

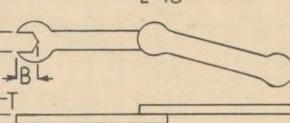
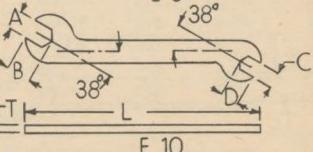
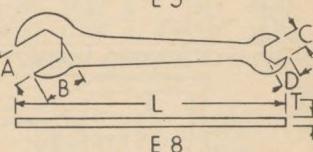
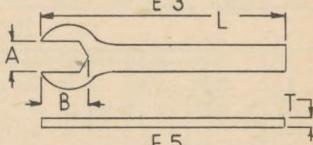
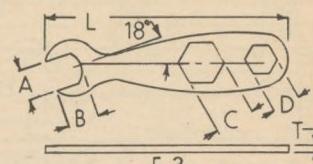
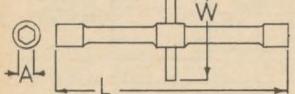
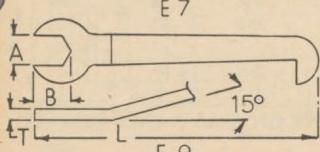
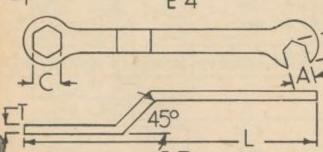
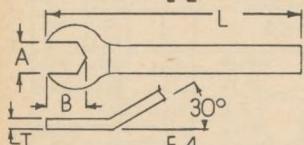
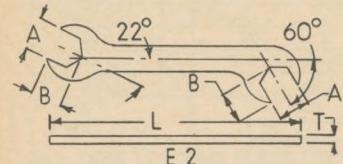
See Section 16 for sets of the above wrenches in metal boxes and plastic rolls.



## SPECIAL TYPE WRENCHES (IGNITION)

See Section 16 for information on set No. N13R which shows the above tools in plastic roll LR36.

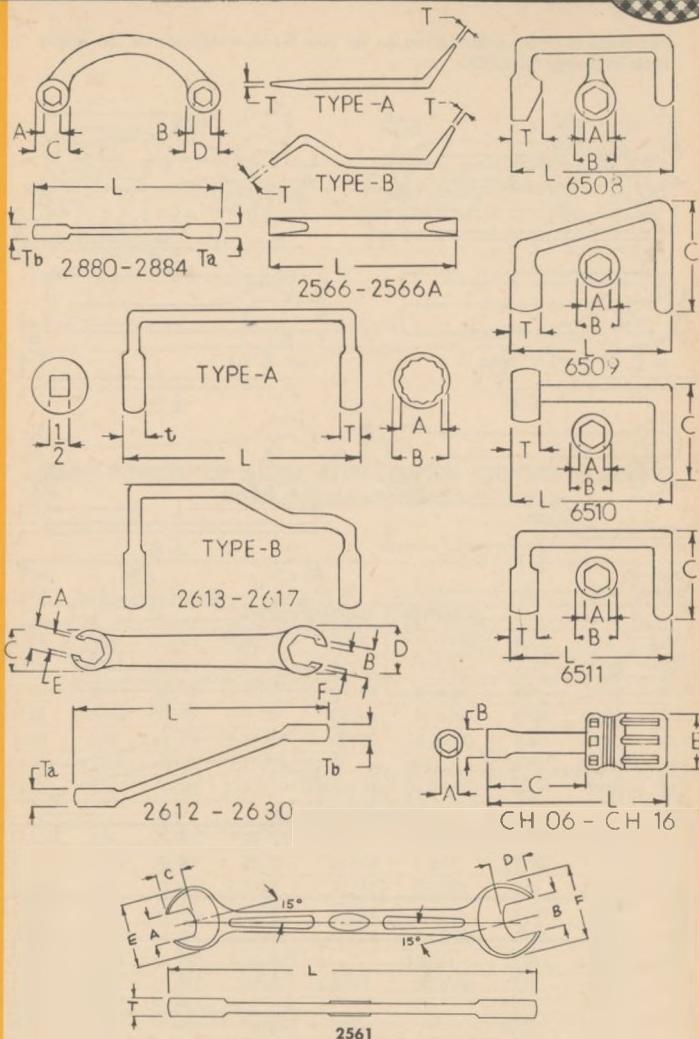
2



E11

Part No.	A	B	C	D	L	T	W	Wt. Lbs.
E2	1/4	1/4	—	—	2	1/8	—	.013
E3	17/64	1/4	11/32	9/32	2-1/2	1/8	—	.024
E4	5/16	5/16	—	—	3	1/8	—	.026
E5	5/16	5/16	—	—	3-3/8	1/8	—	.028
E6	5/16	3/8	—	—	—	1/8	—	.062
E7	1/4	7/32	9/32	—	2-7/8	1/8	—	.021
E8	7/16	7/16	7/32	7/32	3-3/8	1/8	—	.041
E9	1/2	1/2	—	—	3-3/8	1/8	—	.053
E10	7/16	7/16	3/8	11/32	3-7/8	1/8	—	.060
E11	9/32	15/64	—	—	4	—	2-1/2	.070

## SPECIAL TYPE WRENCHES



### BONNEY OFFERS MANY SPECIAL TYPE WRENCHES

Bonney has always taken pride in producing special type wrenches for various adjustments and overhauls.

Many of the above listed wrenches are specialized. However, wrenches such as the slotted box wrench can also be used in refrigeration work where it is necessary to loosen or tighten fittings on tubing.



## SPECIAL TYPE WRENCHES

See Drawings on Other Page for Specifications

### BRAKE ADJUSTING TOOLS

Part No.	Opening		Head Thkns.		Length		Wt. Lb.
2560	7/16		5/16		14		.438
Part No.	A	B	C	D	L	T	Wt. Lb.
2561	3/16	1/4	13/32	15/32	6-1/4	1/4	.169
Part No.	Type		A	L		T	Wt. Lbs.
2566	B		1/2	7-23/32	1/16		.213
2566A	A		1/2	8	1/16		.209

### BOX TYPE 12 POINT FLARE NUT WRENCHES

Part No.	A	B	C	D	E	F	L	Ta	Tb	Wt. Lbs.
2612	3/8	1/2	11/16	13/16	13/64	21/64	4-3/4	9/32	5/16	.109
2612H	3/8	1/2	11/16	13/16	13/64	21/64	4-3/4	9/32	5/16	.109
2618	7/16	9/16	3/4	7/8	17/64	25/64	5-1/16	5/16	11/32	.138
2618H	7/16	9/16	3/4	7/8	17/64	25/64	5-1/16	5/16	11/32	.141
2630	5/8	11/16	1-1/32	1-1/8	15/32	17/32	6	3/8	13/32	.213
2630H	5/8	11/16	1-1/32	1-1/8	15/32	17/32	6	3/8	13/32	.213

### CYLINDER HEAD WRENCHES AND TORQUE WRENCH ATTACHMENTS

Part No.	Type	A	B	L	T	t	Weight Lbs.
2613	A	3/4	1-5/32	5-9/16	1/2	9/16	.444
2614	B	3/4	1-5/32	5-1/2	1/2	9/16	.688
2615	A	5/8	15/16	5-9/16	1/2	9/16	.441
2615A	A	11/16	1-5/32	5-9/16	1/2	9/16	.469
2616	B	5/8	57/64	5-5/8	1/2	1/2	.519
2617	B	11/16	31/32	8-3/8	3/8	1/2	.825

### STARTER AND MANIFOLD WRENCHES

Part No.	A	r	C	D	L	Ta	Tb	Weight Lbs.
2880	3/4	5/8	1-1/8	15/16	7-3/4	3/8	13/32	.422
2881	5/8	9/16	15/16	27/32	7-25/32	3/8	13/32	.303
2883	9/16	5/8	13/16	29/32	8-39/64	7/16	3/8	.422
2884	3/4	9/16	1-1/8	27/32	7-25/32	3/8	3/8	.362

### DISTRIBUTOR WRENCHES

Part No.	A	B	L	T	C	Wt. Lbs.
6508	9/16	53/64	16-3/8	5/16		.671
6509	1/2	3/4	4-1/2	18-3/8	5/16	.687
6510	1/2	3/4	4-7/16	9-3/8	5/16	.447
6511	1/2	3/4	5-3/16	9-3/8	5/16	.478

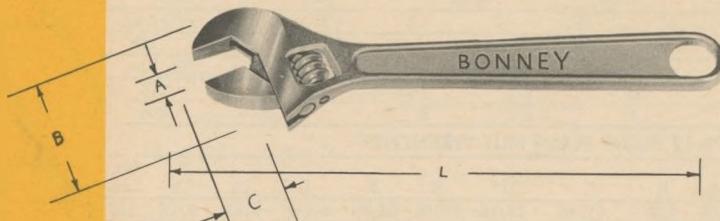
### SPINNER WRENCHES

Part No.	A	B	C	E	L	Wt. Lbs.
CH06	3/16	5/16	2-7/8	7/8	6	.147
CH08	1/4	3/8	3	7/8	6	.131
CH10	5/16	1/2	3	7/8	6	.156
CH11	11/32	1/2	3	7/8	6-1/8	.169
CH12	3/8	9/16	2-7/8	1	6-1/8	.153
CH14	7/16	21/32	3	1-1/8	6-1/16	.216
CH16	1/2	11/16	3	1-1/16	6-1/8	.213

Ref.: Fed. Spec. GGG-W-641b, Type 3, Class 3.

2



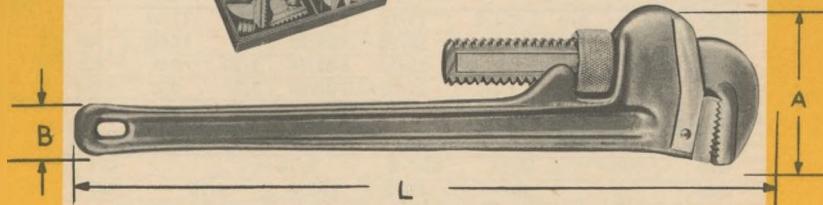


Part No.	A Max. Open.	B	C	L	T	Ta	Weight Lbs.
BW4	17/32	1-3/16	1/2	4-1/4	7/32	5/32	.119
BW6	7/8	1-13/16	47/64	6-3/8	5/16	3/16	.281
BW8	1-1/8	2	29/32	8-1/8	11/32	3/16	.419
BW10	1-5/16	2-9/16	1-1/8	10-1/8	15/32	1/4	.813
BW12	1-7/16	3	1-9/32	12-1/4	9/16	11/32	1.350
BW15	1-7/8	4-5/32	1-3/4	15-5/16	15/16	1/2	1.738
BW18	2-1/16	4-7/8	2-1/4	18-1/2	31/32	9/16	2.356

Ref.: Fed. Spec. GGG-W-631a, Type 1.

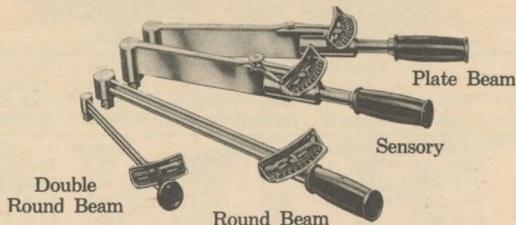
**BW PARTS REPAIR KIT**

The Kit consists of extra jaws, knurls, pins, and springs. The size of this carton is 4-1/4" x 6-1/4" x 1-1/2", weight 2#.



Part No.	Maximum Pipe Size	A	B	L	Weight Lbs.
PW6	3/4	1-9/16	9/16	5-1/2	.428
PW8	1	2-1/8	3/4	7-3/8	.863
PW10	1-1/2	2-1/2	7/8	9-3/4	1.760
PW12	2	3	1-1/8	11-1/2	2.813
PW14	2	3-1/8	1-3/16	13	3.675
PW18	2-1/2	3-5/8	1-3/8	16-1/2	5.887
PW24	3	4-1/4	1-5/8	22-1/4	9.575
PW36	5	5	2	31	19.313

Ref.: Fed. Spec. GGG-W-651b, Type 2, Class A.



## CAPACITIES AND DIMENSIONS

### SENSORY TORQUE WRENCH

Catalog Number	Torque Capacity	Gradua-tions in Steps of	Drive Square Size (Inches)	Lever Arm Distance (Inches)	Pull Required Max. Scale	Overall Length (Inches)	Weight (Pounds)
TS300-I	0 to 300	12-1/2	3/8	13-1/2	22.2	16	2.750
AS300-I	0 to 300	12-1/2	1/2	13-1/2	22.2	16	2.750
TS600-I	0 to 600	25	3/8	13-1/2	44.4	16	2.750
AS600-I	0 to 600	25	1/2	13-1/2	44.4	16	2.750
AS1200-I	0 to 1200	50	1/2	15	80.0	17-1/2	2.750
AS1800-I	0 to 1800	50	1/2	18	100.0	20-9/16	3.750
AS2400-I	0 to 2400	50	1/2	24	100.0	28-1/8	7.750
RS2400-I	0 to 2400	50	3/4	24	100.0	28-1/4	7.750
RS3600-I	0 to 3600	100	3/4	30	120.0	34-1/4	10.750
			Foot-Lbs.	Foot-Lbs.		Pounds	
TS25	0 to 25	1	3/8	13-1/2	22.2	16	2.750
AS25	0 to 25	1	1/2	13-1/2	22.2	16	2.750
TS50	0 to 50	2-1/2	3/8	13-1/2	44.4	16	2.750
AS50	0 to 50	2-1/2	1/2	13-1/2	44.4	16	2.750
AS100	0 to 100	5	1/2	15	80.0	17	2.750
AS150	0 to 150	5	1/2	18	100.0	20-9/16	3.750
AS200	0 to 200	5	1/2	24	100.0	28-1/8	7.750
RS200	0 to 200	5	3/4	24	100.0	28-1/8	7.750
RS300	0 to 300	10	3/4	30	120.0	34-1/4	10.750

## PLATE BEAM TORQUE WRENCH

	Inch-Lbs.	Inch-Lbs.		Pounds	
TP300-I	0 to 300	12-1/2	3/8	13-1/2	22.2
AP300-I	0 to 300	12-1/2	1/2	13-1/2	22.2
TP600-I	0 to 600	25	3/8	13-1/2	44.4
AP600-I	0 to 600	25	1/2	13-1/2	44.4
AP1200-I	0 to 1200	50	1/2	15	80.0
AP1800-I	0 to 1800	50	1/2	18	100.0
AP2400-I	0 to 2400	50	1/2	24	100.0
RP2400-I	0 to 2400	50	3/4	24	100.0
RP3600-I	0 to 3600	100	3/4	30	120.0
			Foot-Lbs.	Foot-Lbs.	Pounds
TP25	0 to 25	1	3/8	13-1/2	22.2
AP25	0 to 25	1	1/2	13-1/2	22.2
TP50	0 to 50	2-1/2	3/8	13-1/2	44.4
AP50	0 to 50	2-1/2	1/2	13-1/2	44.4
AP100	0 to 100	5	1/2	15	80.0
AP150	0 to 150	5	1/2	18	100.0
AP200	0 to 200	5	1/2	24	100.0
RP200	0 to 200	5	3/4	24	100.0
RP300	0 to 300	10	3/4	30	120.0



## CAPACITIES AND DIMENSIONS

### ROUND BEAM TORQUE WRENCH

Catalog Number	Torque Capacity	Gradua-tions in Steps of	Drive Square Size (Inches)	Lever Arm Distance (Inches)	Pull Required Max. Scale	Overall Length (Inches)	Weight (Pounds)
ZA600-I	Inch-Lbs. 0 to 600	Inch-Lbs. 25	1/2	†13-5/16	Pounds 45.1	15-11/16	1.250
ZA1200-I	0 to 1200	50	1/2	†16-11/16	72.2	19-3/16	2.0
ZA1800-I	0 to 1800	50	1/2	†16-11/16	107.9	19-3/16	2.125
ZA2400-I	0 to 2400	100	1/2	†19-1/4	124.7	21-3/4	2.500
ZA50	Foot-Lbs. 0 to 50	Foot-Lbs. 2-1/2	1/2	†13-5/16	Pounds 45.1	15-11/16	1.250
ZA100	0 to 100	5	1/2	†16-11/16	72.2	19-3/16	2.0
ZA150	0 to 150	5	1/2	†16-11/16	107.9	19-3/16	2.125
ZA200	0 to 200	10	1/2	†19-1/4	124.7	21-3/4	2.500
TDR 50-I	Inch-Lbs. 0 to 50	Inch-Lbs. 2-1/2	3/8	†8-17/32	Pounds 5.8	9-5/16	.750
TDR100-I	0 to 100	5	3/8	†9-3/16	11.0	10-1/8	.750
TDR200-I	0 to 200	10	3/8	†10-1/8	19.9	11-1/16	.750
TDR300-I	0 to 300	12-1/2	3/8	†12-9/16	23.8	14-7/8	1.250
ADR300-I	0 to 300	12-1/2	1/2	†12-9/16	23.8	14-7/8	1.250
TDR25-I	Foot-Lbs. 0 to 25	Foot-Lbs. 1	3/8	†12-9/16	Pounds 23.8	14-7/8	1.250
ADR25-I	0 to 25	1	1/2	†12-9/16	23.8	14-7/8	1.250

\*Measure When Computing For Use With Adaptors and Extensions.

## BONNEY SPRING TESTER

When used in conjunction with a Bonney torque wrench it is possible to check the strength of valve and clutch spring to be in accordance with manufacturers' spring specifications.



SPT

An intricate tone device sounds the instant the spring is compressed to the desired length, which may be pre-set by an adjustment of the spring platform on the threaded column. When making the test, read the scale on the torque wrench as the tone device sounds, and multiply the foot-pound reading by two (2) and the result is the spring strength in pounds.

## ATTACHMENTS

An attachment is any shape or form of work-engaging member that functions coaxially with and is attachable to the drive square of the torque wrench.

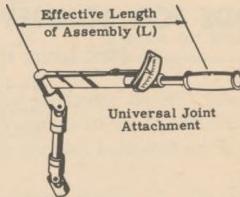
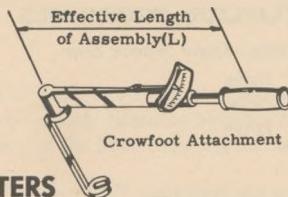
Common examples of such attachments are ordinary sockets, screwdriver or socket head wrenches. See below:



## SPECIAL ATTACHMENTS

Less common examples of attachments are illustrated below:

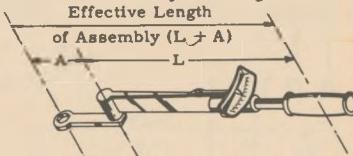
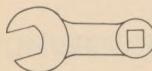
Note that the effective length of the "lever length" (L) remains the same with this type of attachment.



## ADAPTERS

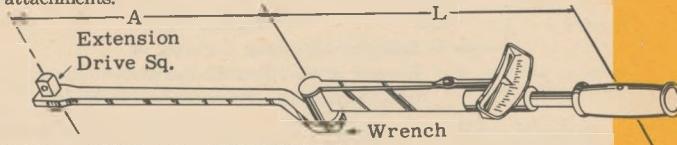
An adapter is any rigid shape or form of work-engaging member extending longitudinally forward from the axis of, and is attachable to, the drive square of the torque wrench.

Therefore, the length of lever "L" is increased by the length of the adapter extension.



## EXTENSIONS

An extension is a rigid bar or shape extending longitudinally from the axis of and is attachable to, the drive square for the purpose of increasing the range of the torque wrench and has at its extremity, a drive square for attachments.



## A GOOD RULE TO REMEMBER Drive Sq.

An adapter or extension the same length as the lever length of the torque wrench will increase the capacity reading two times (double the reading). An adapter only 1/3 the lever length of the wrench will increase by 1-1/3, etc. Many errors have been made by not using this formula.



## BOLT TORQUE

The following is an approximate formula for determining the bolt torque:

T=.2DL

T—Torque inch-pounds

D=Bolt Diameter (inch)

L=Load (pounds)

The above formula is approximate and was derived from tests on bolts from 1/4" diameter to 1" diameter. There are many factors which affect the torque-tension ratio. Every torque specification should be checked experimentally before torque values are established.

## CODE FOR BONNEY TORQUE WRENCHES

First Letter of Prefix—Drive Square Size:

T—3/8" Drive

A—1/2" Drive

R—3/4" Drive

Second Letter Prefix—Type of Wrench:

P—Plate or Flat Beam

S—Sensory Wrench

DR—Double Round Beam

**A P 100 I**

Indicates Wrench Calibrated  
in Inch-Pound

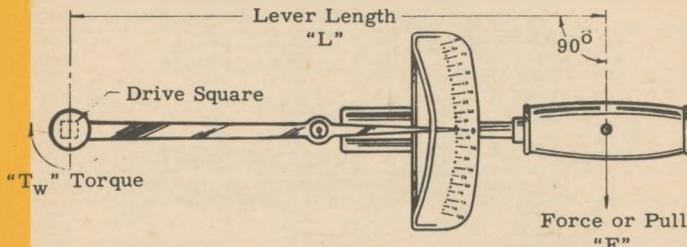
Indicates Maximum Capacity of  
Wrench in Foot-Pounds Unless  
Inch-Pounds Are Indicated by (I) Suffix

NOTE: All Wrenches Are Calibrated from 0 to Maximum Capacity.



## WHAT DOES "TORQUE" MEAN?

Torque is basically the "twisting" action at a given point. In the drawing below we see a torque wrench designed to measure this action or force applied to bolts, spark plugs, adjustment levers, etc.



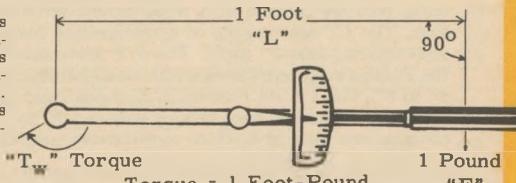
The "force or pull" exerted by the mechanic is illustrated as "F." The lever length of the wrench (distance between the centerline of the square drive and the centerline of the force being applied at the handle) indicated as "L."

The curved arrow " $T_w$ " represents the torque being applied. To calculate the torque at the square drive it is necessary to multiply the lever length "L" times the force "F" (shown in the following formula).

$$\begin{array}{ll} T_w = F \times L \\ \text{TW (TORQUE)} & \text{F (FORCE)} \quad \text{L (LEVER LENGTH)} \end{array}$$

## CONVERSION FORMULA

It often is advantageous to change a torque specification from inch-pounds to foot-pounds . . . inch-pounds to inch-ounces . . . inch-ounces to inch-grams . . . or inch-grams to inch-ounces.



Since there are twelve inches to a foot then it is evident that one foot-pound equals 12"-pounds.

$$\begin{array}{l} \text{Foot-Pounds} \times 12 = \text{Inch-Pounds} \\ \text{Inch-Pounds} \div 12 = \text{Foot-Pounds} \end{array}$$

Since there are 16 ounces to a pound the formulas for converting inch-pounds and inch-ounces are;

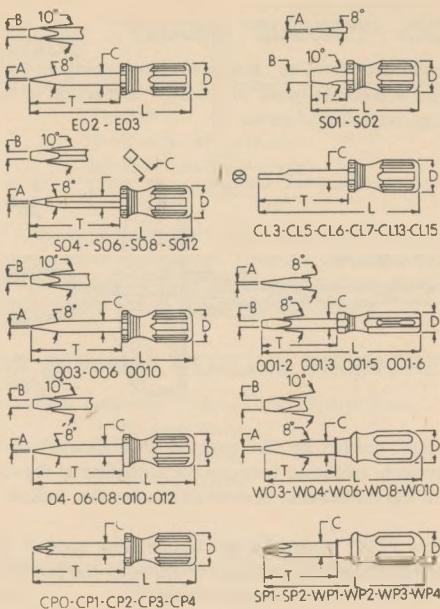
$$\begin{array}{l} \text{Inch-Pounds} \times 16 = \text{Inch-Ounces} \\ \text{Inch-Ounces} \div 16 = \text{Inch-Pounds} \end{array}$$

Since there are 28.35 grams to an ounce the formulas for converting inch-ounces and inch-grams are;

$$\begin{array}{l} \text{Inch-Ounces} \times 28.35 = \text{Inch-Grams} \\ \text{Inch-Grams} \div 28.35 = \text{Inch-Ounces} \end{array}$$

Remember, when the elastic limit of steel or other metals is exceeded, the object will take a permanent set and will not return to its original shape. This is the reason "torque measurement" is so important.

## SCREWDRIVERS



Bonney screwdrivers are offered in wood handles and composition handles. The blades of these screwdrivers are heat treated, ground, polished, and specially tapered to give maximum strength. Accurate machining gives best possible fit for specific jobs.

See Section 16 for information on sets W05, CP, WP, CL, and 0672. W05 set consists of 5 wood handle screwdrivers of various sizes. The CP set consists of 4 composition handle Phillips head screwdrivers, sizes 3" to 8". The WP set consists of one each of the Phillips head screwdrivers with wood handle, sizes ranging from 3" to 8". The CL set consists of 5 clutch head screwdrivers with composition handles, sizes ranging from 3-3/8" to 10-1/2". Set 0672 contains one each of 3 off-set screwdrivers ranging from 4-7/8".

See Section 10 for information on the Bonney screw starters for slot head and Phillips head screws.

## ROUND SHANK BOLSTER

Part No.	Bit Size	A	B	C	D	L	T	Weight Lbs.
04	.035	1/4	1/4	1-1/8	7-3/4	4	191	
06	.045	5/16	5/16	1-1/4	10-1/2	6	322	
08	.052	3/8	3/8	1-1/4	13	8	500	
010	.060	7/16	7/16	1-1/4	15	10	681	
012	.050	3/8	3/8	1-3/8	17-1/2	12	831	

Ref.: Fed Spec. GGG-S-121c, Type 1, Class 5, Style 1.

## SCREW DRIVERS



## ROUND SHANK POCKET COMPOSITION HANDLE

Part No.	Bit Size	A	B	C	D	L	T	Weight Lbs.
001-2	.020	1/8		1/2	4-5/16	2	.025	
001-3	.023	1/8		1/2	5-3/8	3	.028	
001-5	.020	5/32		1/2	7-3/8	5	.041	
001-6	.020	5/32		1/2	8-5/16	6	.044	

Ref.: Fed. Spec. GGG-S-121c, Type 1, Class 8, Style 2.

## ROUND SHANK ELECTRICAL COMPOSITION HANDLE

003	.035	3/16	3/16	7/8	6-3/16	3	.094
006	.035	3/16	3/16	1	9-3/8	6	.138
0010	.035	5/32	3/16	1	13-3/8	10	.166

Ref.: Fed. Spec. GGG-S-121c, Type 1, Class 1, Design B, Style 1.

E03	.025	160	180	7/8	6-5/8	3-1/8	.106
E02	.020	155	145	1/2	5-1/4	2-1/4	.062

Ref.: Fed. Spec. GGG-S-121c, Type 7.

## ROUND SHANK CLUTCH HEAD COMPOSITION HANDLE

CL3	5/32			1/4	7/8	7-1/2	4	.156
CL5	1/4			5/16	1-3/16	10-1/4	6	.313
CL6	9/32			5/16	1-3/16	10-3/8	6-3/8	.306
CL7	5/16			3/8	1-1/4	10-7/8	6	.450
CL13	5/32			1/4	1-1/4	3-7/8	1-3/4	.128
CL15	1/4			1/4	1-1/4	3-7/8	1-3/4	.125

## ROUND SHANK PHILLIPS COMPOSITION HANDLE

CP0	0			1/8	1/2	5-3/32	2-3/4	.028
CP1	1			3/16	11/16	5-15/16	3	.063
CP2	2			1/4	1-1/8	7-3/4	4	.181
CP3	3			5/16	1-1/4	10-1/2	6	.322
CP4	4			3/8	1-1/4	10-1/8	8	.456

Ref.: Fed. Spec. GGG-S-121c, Type 6, Class 1, Style 1.

## SQUARE SHANK STUBBY COMPOSITION HANDLE

S01		.037	1/4	1/4	1-1/4	3-3/4	1-3/4	116
S02		.032	1/4	7/32	7/8	2-3/4	1	.050

Ref.: Fed. Spec. GGG-S-121c, Type 1, Class 3.

## SQUARE SHANK BOLSTER COMPOSITION HANDLE

S04		.040	5/16	7/32	1-1/8	7-3/4	4	.213
S06		.045	3/8	5/16	1-1/4	10-1/2	6-1/8	.378
S08		.050	3/8	3/8	1-1/4	13	8	.569
S012		.058	1/2	3/8	1-3/8	17-1/2	12	.800

Ref.: Fed. Spec. GGG-S-121c, Type 1, Class 5, Style 1, Design B.

## ROUND SHANK WOOD HANDLE PHILLIPS

SP1	1				3/8	7/8	3	1	.044
SP2	2				1/4	1-1/4	3-5/8	1-1/2	.088
WP1	1				3/16	7/8	6-3/8	3	.075
WP2	2				1/4	1-1/8	8-11/16	4	.141
WP3	3				5/16	1-1/4	11-3/4	6	.294
WP4	4				3/8	1-7/16	14-5/8	8	.519

Ref.: Fed. Spec. GGG-S-121c, Type 6, Class 1, Style 2.

## ROUND SHANK WOOD HANDLE

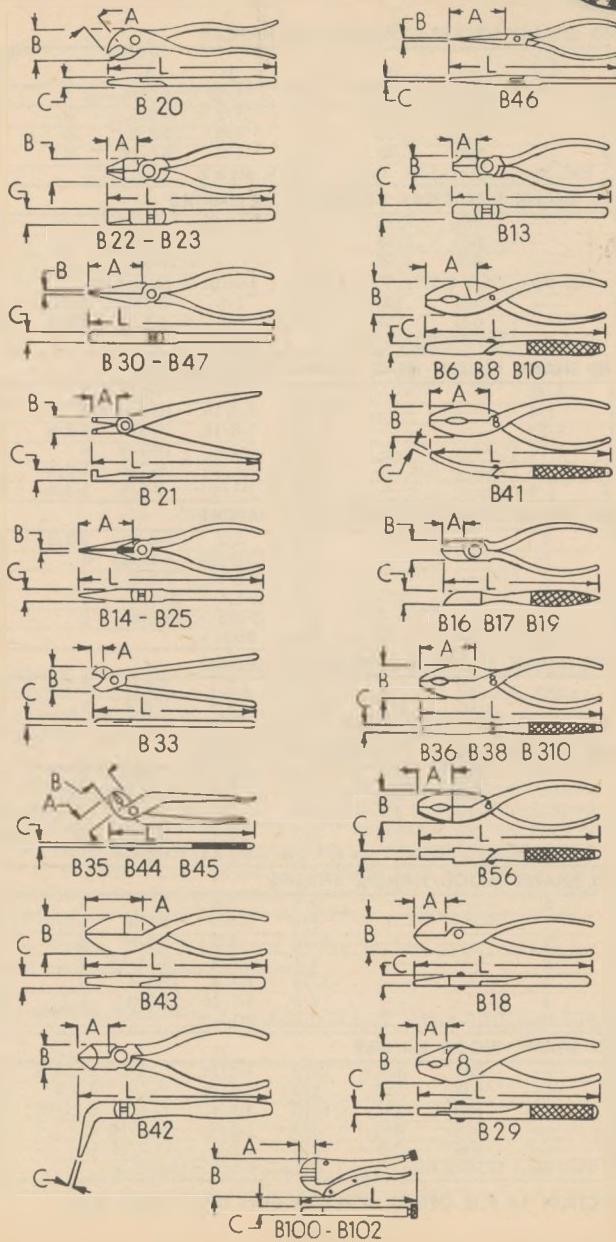
W03		.030	1/4	7/32	1-1/16	7-1/2	2-13/16	153
W04		.030	1/4	1/4	1-1/16	9	3-3/4	.194
W06		.040	9/32	5/16	1-1/4	11-7/8	5-11/16	.331
W08		.050	3/8	3/8	1-3/8	14-5/16	8	.525
W010		.050	3/8	3/8	1-3/8	16-5/16	10	.588

Ref.: Fed. Spec. GGG-S-121c, Type 1, Class 5, Style 2, Design A.

SEE SECTION 16 FOR OFFSET SCREWDRIVERS 0069, 0070, 0071



PLIERS



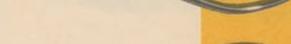
Bonney offers a wide variety of pliers to meet most any requirement. On the following pages are listed the various types with all pertinent specifications.

### B6, B8, B10 COMBINATION PLIERS

These pliers are built for dependable service, forged, heat treated, and plated under exacting specifications.

Part No.	A	B	C	Length	Wt., Lbs.
B6	15/16	1-1/4	13/32	6"	.443
B8	1-1/16	1-5/16	7/16	8"	.557
B10	1-3/8	1-1/2	1/2	10"	1.109

Ref.: Fed. Spec. GGG-P-471a, Type F, Class 1, Style 1.



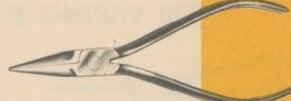
5

### B13 FLAT NOSE PLIER

This plier, along with B14 and B16, is exceptionally useful for ignition, starter, generator, carburetor, and light wiring jobs.

Part No.	A	B	C	Length	Wt., Lbs.
B13	1-1/8	17/32	11/32	5"	.213
B14	1-1/4	9/16	11/32	5"	.203

Ref.: Fed. Spec. GGG-P-471a, Type H, Class 1, Style 2.

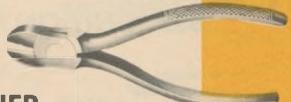


### B16, B17, B19 DIA. CUTTING PLIERS

The diagonal head provides hand clearance for close quarter cutting.

Part No.	A	B	C	Length	Wt., Lbs.
B16	25/32	5/8	3/8	5"	.244
B17	13/16	11/16	7/16	6"	.363
B19	1	29/32	15/32	7"	.506

Ref.: Fed. Spec. GGG-P-471a, Type H, Class 1, Style 2.



### B18 HEAVY DUTY DIA. CUTTING PLIER

Specially heat treated cutting edge gives long, dependable service.

Part No.	A	B	C	Length	Wt., Lbs.
B18	3/4	1-7/32	7/16	7"	.531

Ref.: Fed. Spec. GGG-P-471a, Type H, Class 2.



### B20 BATTERY PLIER

The jaws of this plier are deeply serrated to insure the best grip on terminal connections.

Part No.	A	B	C	Length	Wt., Lbs.
B20	1/2	1-1/8	5/16	8"	.531

Ref.: Fed. Spec. GGG-P-471a, Type D.



### B21 LOCK RING PLIER

Especially designed to remove and install lock or snap rings.

Part No.	A	B	C	Length	Wt., Lbs.
B21	1-1/2	13/16	5/16	7-3/4"	.406



### B22, B23 LINEMAN'S PLIERS

A very handy plier for most all wiring jobs.

Part No.	A	B	C	Length	Wt., Lbs.
B22	1-1/16	7/8	1/2	6"	.466
B23	1-7/16	1-7/32	5/8	8"	.956

Ref.: Fed. Spec. GGG-P-471a, Type N.



**PLIERS****B25 LONG NOSE SIDE CUTTING PLIER**

This plier is especially handy for close quarter work, reaching into tight places.

Part No.	A	B	C	Length Wt., Lbs.
B25	1-15/16	11/16	3/8	6" 281

Ref.: Fed. Spec. GGG-P-471a, Type P.

**B29 THIN NOSE SLIP JOINT SIDE CUTTING PLIER**

This is an all-purpose plier which answers all the requirements for the "do it yourself" man.

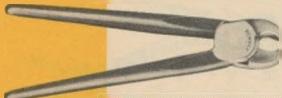
Part No.	A	B	C	Length Wt., Lbs.
B29	1-3/4	1-3/8	7/16	7-1/2" 556

**B30 WIRING PLIER, DUCK BILL**

The square jaws give a tight grip for working in close quarters.

Part No.	A	B	C	Length Wt., Lbs.
B30	2-5/8	11/16	11/32	7" 303

Ref.: Fed. Spec. GGG-P-471a, Type Y.

**B33 HOG RING PLIER**

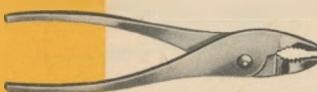
For pinching large rings. Jaws designed for perfect fit.

Part No.	A	B	C	Length Wt., Lbs.
B33	1/2	1	11/32	7" 409

**B35 IGNITION PLIER**

The mechanism is designed to relieve pressure on the bolt.

Part No.	A	B	C	Length Wt., Lbs.
B35	3/8	7/8	1/4	5" 150

**B36, B38, B310 SLIP JOINT PLIERS**

2 position plier with throat-type cutter.

Part No.	A	B	C	Length Wt., Lbs.
B36	15/16	1-3/16	7/16	6" 466
B38	1-1/16	1-1/4	7/16	8" 631
B310	1-3/8	1-5/8	17/32	10" 162

Ref.: Fed. Spec. GGG-P-471a, Type F, Class 1, Style 1.

**B41 THIN NOSE 30° ANGLE SLIP JOINT PLIER**

Designed for special applications, heat treated, chromium plated.

Part No.	A	B	C	Length Wt., Lbs.
B41	1-1/4	1-1/8	3/8	6" 463

**B42 CURVED LONG NOSE PLIER**

The nose of this plier is specially bent for hard to get at jobs.

Part No.	A	B	C	Length Wt., Lbs.
B42	1-1/4	5/8	3/8	6" 294

Ref.: Fed. Spec. GGG-P-471a, Type T, Class 1.

**B43 CORBIN HOSE CLAMP PLIER**

Used with wire self-tightening hose clamps.

Part No.	A	B	C	Length Wt., Lbs.
B43	7/8	1-5/16	7/16	8" .600



## PLIERS

### B44 SLIP JOINT IGNITION PLIER

Part No.	A	B	C	Length	Wt., Lbs.
B44	3/4	1-7/16	5/16	6-1/2"	.341

Ref.: Fed. Spec. GGG-P-471a, Type E, Class 1.



### B45 RIB JOINT PUMP PLIER

The design of this tool allows each rib joint to share the shearing load, thereby relieving tension on the bolt. Adjustable to 4 positions, parallel opening 1-1/16".

Part No.	A	B	C	Length	Wt., Lbs.
B45	3/4	1-7/8	13/32	10"	.806

Ref.: Fed. Spec. GGG-P-471a, Type E, Class 1.



5

### B46 CHAIN NOSE PLIER

Box joint construction resists loosening from twisting action.

Part No.	A	B	C	Length	Wt., Lbs.
B46	1-3/8	9/16	13/32	8"	.428

Ref.: Fed. Spec. GGG-P-471a, Type T, Class 2.



### B47 DUCK BILL PLIER

The design of this plier resists loosening from twisting action.

Part No.	A	B	C	Length	Wt., Lbs.
B47	1-3/8	1/2	3/8	8"	.416

Ref.: Fed. Spec. GGG-P-471a, Type Y.



### B56 THIN STRAIGHT NOSE SLIP JOINT PLIER

Special design allows gripping action in tight spots.

Part No.	A	B	C	Length	Wt., Lbs.
B56	1-5/16	1-5/16	13/32	6"	.488

Ref.: Fed. Spec. GGG-P-471a, Type F, Class 2, Style 1.



### B100 PLIER WRENCH

Gives positive gripping on irregular objects. Easily adjusted with locking hinged lower jaw. 7" overall length. Weight (Pounds) .588.

Ref.: Fed. Spec. GGG-P-471a, Type U, Class 1, Style 1.



### B102 PLIER WRENCH

Gives positive gripping on irregular objects. Easily adjusted with locking hinged lower jaw. 10" overall length. Weight (Pounds) 1.244.

Ref.: Fed. Spec. GGG-P-471a, Type U, Class 1, Style 1.



### B50, B51, B52 BONNEY METAL SNIPS

The jaws are 2-1/2" long, handle 6-3/4" long, overall length 9-3/4". Finished in 3 styles:

B50 for right hand cutting. Weight (Pounds) .888

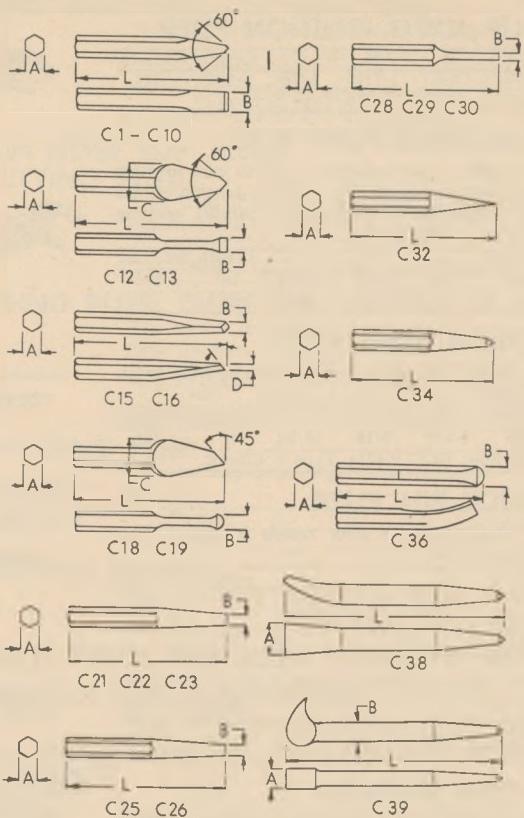
B51 for left hand cutting. Weight (Pounds) .172

B52 universal, for right or left cuts.

Weight (Pounds) .900



## CHISELS AND PUNCHES



Bonney chisels are forged of special alloy steel and carefully heat treated to give maximum strength and durability. The bits are hard enough to work on any untempered metal and still soft enough to be reshaped with a file.

### FLAT CHISELS

Part No.	A	B	C	D	L	Wt., Lbs.
C1	1/4	5/16	—	—	5	.062
C2	3/8	7/16	—	—	5-1/2	.163
C2A	7/16	1/2	—	—	6	.244
C3	1/2	5/8	—	—	6	.328
C4	5/8	3/4	—	—	6-1/2	.563
C5	3/4	7/8	—	—	7-1/2	.838
C6	7/8	1	—	—	8	1.269
C7	1	1-1/4	—	—	8-1/2	1.708

Ref.: Fed. Spec. GGG-C-313a, Type 4, Class 1, Regular Length.

## CHISELS AND PUNCHES



Important facts about chisel grinding. Avoid grinding with a machine, as this can cause excessive heat which will destroy the temper of the chisel. The best method is with a file using a rocking or curved stroke, thus avoiding cutting too much metal. A properly "dressed" cutting edge should have a rounded appearance (convex) instead of a concave appearance.

### LONG

Part No.	A	B	C	D	L	Wt., Lbs.
C10	3/4	7/8	—	—	14	1.688

Ref.: Fed. Spec. GGG-C-313a, Type 4, Class 2, Long.

### CAPE CHISELS

C12	1/2	1/4	11/16	—	6	.294
C13	5/8	3/8	7/8	—	7	.513

Ref.: Fed. Spec. GGG-C-313a, Type 1, Style A.

### DIAMOND POINT

C15	1/2	1/4	—	1/4	6	.328
C16	5/8	5/16	—	3/8	7	.569

Ref.: Fed. Spec. GGG-C-313a, Type 11, Style A.

### ROUND NOSE

C18	1/2	1/4	3/4	—	6	.294
C19	5/8	3/8	7/8	—	7	.513

Ref.: Fed. Spec. GGG-C-313a, Type 6, Class 1.

### SOLID PUNCHES

C21	3/8	1/16	—	—	5-1/4	.141
C22	9/16	1/8	—	—	6-1/4	.291
C23	5/8	3/16	—	—	7-1/4	.506

Ref.: Fed. Spec. GGG-P-831a, Type 9, Class A.

### LONG TAPER PUNCHES

C25	3/8	5/32	—	—	8-3/16	.209
C26	1/2	3/16	—	—	9	.406

Ref.: Fed. Spec. GGG-P-831a, Type 9, Class B.

### PIN PUNCH

C28	3/8	1/8	—	—	5	.138
C29	1/2	3/16	—	—	5-5/7	.241
C30	5/8	1/4	—	—	6-3/8	.431

Ref.: Fed. Spec. GGG-P-831a, Type 8, Class A.

### PRICK PUNCH

C32	3/8	—	—	—	4-3/4	.128

Ref.: Fed. Spec. GGG-P-831a, Type 10.

### CENTER PUNCH

C34	3/8	—	—	—	5	.144

Ref.: Fed. Spec. GGG-P-831a, Type 2, Class A.

### RIVET BUSTER

C36	3/4	5/8	—	—	12	1.738

Ref.: Fed. Spec. GGG-C-313a, Type 5.

### PRY OR PINCH BAR

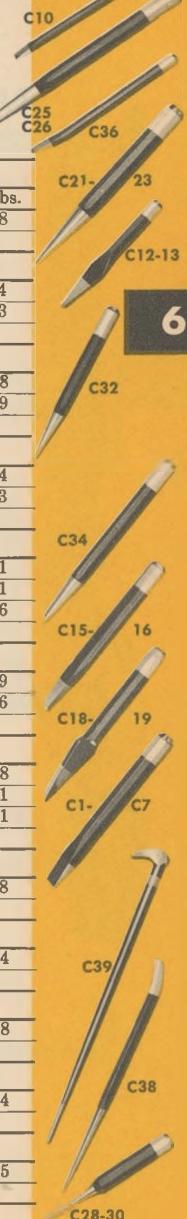
C38	5/8	—	—	—	16	1.144

Ref.: Fed. Spec. GGG-B-101b, Type 3.

### PRY BAR TAPERED END

C39	19/32	9/16	—	—	15-1/4	.975

Ref.: Fed. Spec. GGG-B-101b, Type 4.



## HAMMERS — BALL PEIN, SOFT FACE, CLAW



Bonney hammers are designed to give long life and maximum service. See Section 8 for information on various hammers used in body and fender work.

### BALL PEIN HAMMER



These hammer heads are drop forged from special hammer steel, handles made of straight grained hickory.

Part No.	Overall Length	Head Length	Regular Head Dia.	Ball Pein Dia.	Weight Lbs.
PH2	11-1/4	2-1/2	13/16	5/8	431
PH5	13	3-1/4	1	3/4	656
PH6	14	3-3/4	1-1/8	7/8	1 050
PH7	14-3/8	4	1-1/4	1	1 306
PH9	16	4-3/8	1-3/8	1-1/16	1 863
PH10	16	4-7/8	1-9/16	1-1/4	2 394

### SOFT FACE HAMMER



These hammers are especially handy for body and fender repair work for shaping and forming light sheet metal, also for any job requiring the hammer that will not mar finished surfaces for delicate machine parts.

Part No.	Over-all Lgth.	Head Lgth.	Tip Dia.	Hammer Weight Lbs.	Tip Part No.	Type of Tip	Description	Tip Wt.
PH15	11-5/8	3-3/4	1-1/4	744	PH15TP	2 Regular	Tip for PH15	053
PH17	7-3/4	2	5/8	147	PH17TP	2 Regular	Tip for PH17	006
PH18	9	2-3/4	7/8	319	PH18TP	2 Regular	Tip for PH18	019
PH20	11-5/8	4-5/8	1-3/8	1 231	PH20TP	2 Regular	Tip for PH20	063
PH21	12-3/4	5-5/8	1-9/16	1 300	PH21TP	2 Regular	Tip for PH21	097

### TIRE & RIM HAMMER



Especially designed to make the difficult job of tire changing easier.

Part No.	Overall Length	Head Length	Head Dia.	Weight (Pounds)
PH19	16	5-1/4	1-5/16	3.488

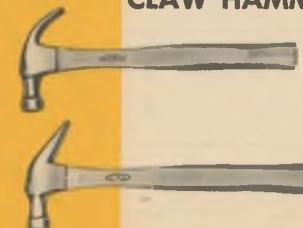
### RUBBER MALLET



This is an especially handy mallet to use on jobs where contact may be made with finished surfaces.

Part No.	Overall Length	Head Length	Head Dia.	Weight (Pounds)
PH30	17	5-1/4	2-5/8	2.225

### CLAW HAMMERS



Hammer number PH35 is made with a curved claw while PH36 is made with straight claw. Both hammer heads are drop forged of high grade steel.

Part No.	Overall Length	Head Length	Head Dia.	Weight (Pounds)
PH35	13"	5	1-1/16	1.338
PH36	13"	5-1/4	1-1/16	1.413

To get the most out of your file, it should be selected with great care to assure proper application to the job. The file is one of the most important tools in the mechanic's tool box.

### *How to choose a file . . .*

What type of material are you going to file, and what results are you after? This must be taken into consideration when selecting your files.

Files are made in various shapes to fit the type of job: flat, square hole, round hole, edge, concave or convex surface. Also the size of file is determined by the length of stroke desired in addition to size and location of material to be filed.

When selecting the cut of the file, bear in mind the nature of material and the amount to be removed as well as the finish desired.

7

### *How to measure a file . . .*

The length of the file is determined by measuring from shoulder (or point where body meets the tang) to the opposite end (or point).



### *What type of file . . .*

When choosing a particular type of file, bear in mind that a larger file will have a coarse cut. It is simple to visualize that a smaller file in the same pattern would not be as coarse because of the overall pattern being reduced. Also bear in mind that the same difference always exists between bastard, second cut and smooth cut for any file in any given length.



## FILES



Illustrated below are the five types of files in the Bonney line. The same high quality found in other Bonney tools. Files from 5 inches to 10 inches packaged in dozens. Others packaged in six each.



**MILL FILES (Bastard)**      6"      8"      10"      12"      14"      16"  
PART No. FMB WT. LBS.    1.312    2.000    4.875    5.625    4.812    7.500



**FLAT FILES (Bastard)**      6"      8"      10"      12"      14"      16"  
PART No. FFB WT. LBS.    1.625    4.875    7.500    5.750    8.750



**ROUND FILES (Bastard)**      6"      8"      10"      12"  
PART No. FRB WT. LBS.    1.625    3.250    3.500    6.375



**HALF-ROUND (Bastard)**      6"      8"      10"      12"      14"  
PART No. FHB WT. LBS.    1.500    3.375    6.375    5.375    9.0



**EXTRA SLIM TAPER FILE**      5"      6"      8"  
PART No. FST WT. LBS.    .625    1.125    2.750



**FILE HANDLES #2, #3, #4**

These handles are offered in three popular sizes. They are made of wood (unfinished) and are protected against splitting at the tang opening with metal ferrule.

**FH2 (SMALL) FOR 5" AND 6" FILES, WEIGHT LBS. .125**

**FH3 (MEDIUM) FOR 8" AND 10" FILES, WEIGHT LBS. .125**

**FH4 (LARGE) FOR 12", 14" AND 16" FILES, WEIGHT LBS. 187**

**POINT FILES**



One dozen high grade point files packaged on attractive, two-color, card for convenience of display and point of purchase appeal. These files are 5-3/8" long.

WEIGHT OF ONE DOZEN ON CARD—LBS. .250.



## HACK SAWS AND FRAMES

### #2624 HACK SAW WITH RED PLASTIC HANDLE

This rugged hack saw features a durable red plastic pistol grip with curved design to enable a comfortable fit. The frame is adjustable for 8, 10, and 12" blades and features 4 index positions, attractive nickel-plate finish. Shipping weight lbs. 1.750.



### #2625 "CLOSE QUARTER" HACK SAW

Designed for use where clearances do not permit a standard frame, comes equipped with blade. Shipping weight lbs. .650.



### #2625B BLADES

These blades are available in packages of 10.  
Shipping weight lbs. .250.

### #2627 HACK SAW FRAME

Also designed to fit in close places, especially handy for electricians, plumbers, and home mechanics. Shipping weight lbs. .250.



7

### #2627B BLADES

These 6" blades are available in packages of 10. Shipping weight lbs. .065.

### #2628 ADJUSTABLE HACK SAW FRAME

This reinforced frame is adjustable from 8" to 12", comes equipped with one 12" blade. An outstanding feature is that the blades may be faced in any one of four directions. Shipping weight lbs. 1.065.



### F SERIES, FLEXIBLE HACK SAW BLADES

These blades are made of tungsten alloy steel with flexible black hardened teeth carefully built and set for cutting. Standard package 10 blades.



No.	Length	Width	Gauge	Teeth Per Inch	Blade Series	Weight Per Pkg.
F1018	10	1/2	.025	18	Coarse	.380
F1024	10	1/2	.025	24	Medium	.380
F1032	10	1/2	.025	32	Fine	.380
F1218	12	1/2	.025	18	Coarse	.450
F1224	12	1/2	.025	24	Medium	.450
F1232	12	1/2	.025	32	Fine	.450

### HS SERIES, ALL HARD HACK SAW BLADES

These blades are non-flexible, made of high speed steel used for difficult cutting jobs such as chrome, nickel, and high carbon steel. Standard package 10 blades.



No.	Length	Width	Gauge	Teeth Per Inch	Blade Series	Weight Per Pkg.
HS1018	10	1/2	.025	18	Coarse	.380
HS1024	10	1/2	.025	24	Medium	.380
HS1032	10	1/2	.025	32	Fine	.380
HS1218	12	1/2	.025	18	Coarse	.450
HS1224	12	1/2	.025	24	Medium	.450
HS1232	12	1/2	.025	32	Fine	.450

**BODY AND FENDER TOOLS (DOLLY BLOCKS)**

Ref. Fed. Spec. GGG-B-481a

Bonney dollies and spoons are drop forged of selected steel best suited for their specific operations.

**F2 REGULAR OR TOE DOLLY BLOCK**

LENGTH	WIDTH	THICKNESS	WEIGHT
4-3/4"	2-1/2"	1-1/16"	Lbs. 2.500

**F3 HEEL DOLLY BLOCK**

LENGTH	WIDTH	THICKNESS	WEIGHT
3-1/4"	2-1/2"	1-1/2"	Lbs. 2.250

**F4 BAR DOLLY BLOCK**

LENGTH	WIDTH	THICKNESS	WEIGHT
4-1/4"	2"	1-1/2"	Lbs. 3.00

**F5 WEDGE DOLLY BLOCK**

LENGTH	WIDTH	WEIGHT
5"	2-1/2"	Lbs. 2.500

**F6 GENERAL PURPOSE DOLLY BLOCK**

LENGTH FACE	WIDTH	THICKNESS	WEIGHT
3"	2-3/8"	2-1/4"	Lbs. 3.00

**F7 BUDD DOLLY BLOCK**

LENGTH	WIDTH	THICKNESS	WEIGHT
3-1/2"	2-1/2"	3/4"	Lbs. 3.000

**F10 SMALL HAND HOLD DOLLY**

LENGTH FACE	HEAD WIDTH	HEAD THICKNESS	WEIGHT
2"x2-1/8"	2"	7/8"	Lbs. 2.250

**F11 ANGLE DOLLY BLOCK**

LENGTH	WIDTH	THICKNESS	WEIGHT
3-1/4"	3-1/4"	1-1/4"	Lbs. 2.500

**F12 LARGE HAND HOLD DOLLY**

LENGTH FACE	HEAD WIDTH	HEAD THICKNESS	WEIGHT
3-3/4"x3-1/4"	3-1/2"	3/4"	Lbs. 3.500



## BODY AND FENDER TOOLS (SPOONS, SNIPS, FILES)

All Bonney body and fender tools are designed for their specific type of job. You know you are using the finest quality hand tools, engineered and designed with the user in mind.

### F13 SPECIAL DOOR PANEL SPOON

Blade is 2-1/4" wide, 7" long.

Handle is 7/8" diameter.

Weight lbs. 1.437.



### F15 WIDE BODY SPOON

Blade is 2-1/4" wide, 7" long.

Length Overall 10-1/2", Weight lbs. 1.000.



8

### F16 PANEL SPOON

Blade is 2-1/4" wide, 7" long.

Overall length 11-1/4",

Weight lbs. 1.375.



### F25 FLEXIBLE FILE BLADE (14 INCHES LONG)

For filing soft metals, this body file blade designed on the milling cutter principle. Each tooth has a land and groove, thereby increasing the cutting quality and eliminating the chips and loading. Recommended for sheet steel and auto bodies and fenders. Used with the Bonney file holders. Weight lbs. .687.



### F31 ADJUSTABLE (FLEXIBLE) FILE HOLDER

Made of aluminum for long dependable service. Used with 14-inch flexible file, file can be flexed to match surface to be worked on. Shipping Wt. lbs. 1.437.



### F24 FILE HOLDER (WOODEN)

A popular file holder made for F25 flexible blade. The special grip assures accurate filing. Shipping Wt. lbs. .937.



### F26 SET (CONSISTS OF SIX F25 BLADES AND ONE F24 FILE HOLDER)

## BODY AND FENDER TOOLS (HAMMERS)



Ref. Fed. Spec. GGG-H-86a

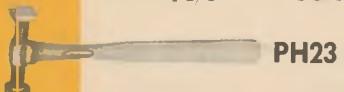
Bonney hammers are made of top quality materials. The heads are drop forged of the finest hammer steel and the handles are made of hickory. Heads are black with polished faces.

### ★ SEE SETS FB3 AND FB7 IN SET SECTION



#### PH22 BUMPING HAMMER . . .

LENGTH OF HEAD	ROUND FACE DIAMETER	SQUARE FACE	OVERALL LENGTH	HEAD WEIGHT POUND
4-1/4"	1-1/4"	1-1/4" sq.	12"	1



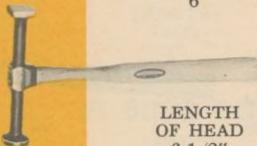
#### PH23 LIGHT BUMPING HAMMER . . .

LENGTH OF HEAD	ROUND FACE DIAMETER	SQUARE FACE	OVERALL LENGTH	HEAD WEIGHT OUNCES
4"	1-1/4"	1-1/8" sq.	11-1/2"	9



#### PH24 DINGING HAMMER . . .

LENGTH OF HEAD	SMALL FACE DIAMETER	LARGE FACE DIA.	OVERALL LENGTH	HEAD WEIGHT OUNCES
6"	1-1/4"	1-5/8"	12"	13



#### PH25 LIGHT DINGING HAMMER . . .

LENGTH OF HEAD	ROUND FACE DIAMETER	SQUARE FACE	OVERALL LENGTH	HEAD WEIGHT OUNCES
6-1/2"	1-1/4"	1-1/16" sq.	11-1/2"	10



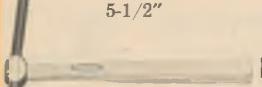
#### PH26 SPEC. BUMPING HAMMER . . .

LENGTH OF HEAD	ROUND FACE DIAMETER	OVERALL LENGTH	HEAD WEIGHT OUNCES
4"	1-9/16"	12"	7



#### PH27 UPHOLSTERERS' MAGNETIC HAMMER . . .

LENGTH OF HEAD	OVERALL LENGTH	HEAD WEIGHT OUNCES
5-1/2"	12"	7



#### PH31 LONG PICK HAMMER . . .

LENGTH OF HEAD	ROUND FACE DIAMETER	OVERALL LENGTH	HEAD WEIGHT OUNCES
9-1/2"	1-5/8"	12"	15



## GEAR PULLERS AND SEPARATORS

REF. FED. SPEC. GGG-P-781

### PO11 CONVERTIBLE GEAR PULLER

Heavy duty construction and designed for quick change-over to two-arm or three-arm puller as desired. The reversible arms (PO11-5) have a maximum reach of 3-1/2 inches in depth and up to 6 inches spread.

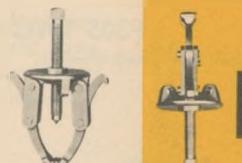
Easy and quick assembly and breakdown made possible by construction of the upper assembly pins (incorporating a ball-detent locking device). The PO11 can be used to replace two separate pullers. For easy identification, component parts have been assigned the following numbers:

PO11-1 (Hub)	PO11-4 (Pin)
PO11-2 (Screw)	PO11-5 (Arm—3-1/2" reach)
PO11-3 (Link)	PO11-6 (Shear Pin)

All parts being interchangeable, this puller can be converted to PO11-L (shown below) by securing a set of extra arms (PO11L-5). Maximum reach 3-1/2", maximum spread 6". Weight lbs. 2,562.



Assembled as  
2-Arm Puller



9

### PO11L CONVERTIBLE PULLER

This is actually the same puller as PO11 with the exception of longer adjustable arms (PO11-5) with a maximum reach of 5-1/2" and a spread up to 8".

When purchasing a puller where the longer arms are required, the PO11-5 long arms should be clearly specified. The parts are identified by the following numbers:

PO11-1 (Hub)	PO11-4 (Pin)
PO11-2 (Screw)	PO11-5 (Arm—5-1/2" reach)
PO11-3 (Link)	PO11-6 (Shear Pin)

Maximum reach 5-1/2", maximum spread 8". Weight lbs. 3,250.

Arms for PO11L



Assembly No. PO11L-5

### PO12 CONVERTIBLE GEAR PULLER

This heavy duty puller will answer most of the demands of the automotive service shop.

The design of this puller is basically the same as PO11, easily converted into a two- or three-arm puller to meet various job requirements.

An outstanding feature of this puller is the slotted jaws on one end of the reversible arms, for pulling gears which necessitate the use of cap screws in removal. These arms (PO12-5) have a maximum reach of 5-1/2" and will spread to 8".

Parts are identified by the following numbers:

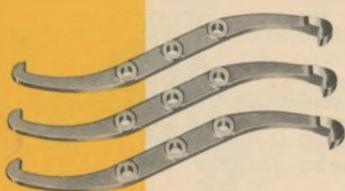
PO12-1 (Hub)	PO12-4 (Pin)
PO12-2 (Screw)	PO12-5 (Arm—5-1/2" reach)
PO12-3 (Link)	PO12-6 (Shear Pin)

Maximum reach 5-1/2", maximum spread 8". Weight lbs. 6,000.





## PO12-L CONVERTIBLE GEAR PULLER



Arms for Assembly  
PO12L-5

The arms shown here (PO12L-5) are used to convert PO12 unit into the PO12L unit.

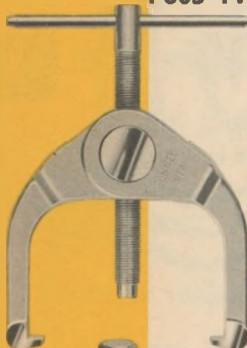
These longer arms have a maximum reach of 8-1/2" depth and spread to 10". Here again the choice must be made at the time of purchase for either long or short arms depending on the type of operation.

Parts are identified as follows:

PO12-1 (Hub)	PO12-4 (Pin)
PO12-2 (Screw)	PO12L-5 (8-1/2" Arm)
PO12-3 (Link)	PO12-6 (Shear Pin)

Maximum reach 8-1/2", maximum spread 10".  
Weight lbs. 7.0.

## P305 TWO-ARM GEAR PULLER



Especially useful to the refrigeration serviceman, but also covers a great number of applications in automotive and aircraft service.

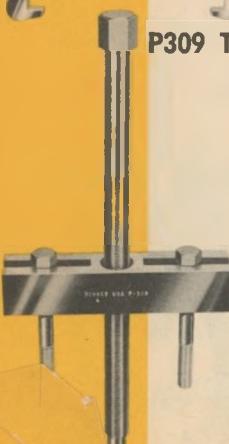
The unique feature of this puller is the simplicity of its design and construction.

Parts are identified as follows:

P305-1 (Outer Arm)	P305-3 (Forcing Screw)
P305-2 (Inner Arm)	P305-5 (Pivot Pin)

Maximum reach 2-3/8", maximum spread 3-1/2".  
Weight lbs. 1.625.

## P309 TIMING GEAR PULLER



For removing timing gears, fan assemblies, vibration dampeners and other parts which are tapped to receive cap screws 3/8" in diameter or less.

Parts for the P309 Puller are identified as follows:

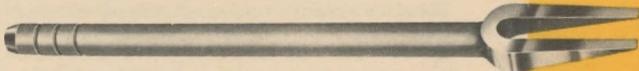
P309-1 (Center block 5-1/2" long)
P309-2 (Forcing screw 11-1/2" long)
P309-3 (Cap Screws 2, 3/8"-16 threads per inch—3-1/2" long)

Maximum reach 7-1/2", maximum spread 5-1/2".  
Weight lbs. 2.750.



## GEAR PULLERS AND SEPARATORS

### P317 SHOCK LINK & STABILIZER LINK SEPARATOR



This forked wedge separation is used to free the tapered links of the shock absorber assembly or the stabilizer assembly from their mountings. The wedge is inserted between the link and the arm of the assembly and loosened by striking the tool.

P317 has a jaw opening of 5/8" and is 16" long. Weight lbs. 2.250.

### P319 PITMAN ARM SEPARATOR



A forked wedge type separator used to dismount the Pitman arm assembly. Insert wedge between the Pitman arm and the shaft and strike end of tool. P319 has a jaw opening of 1-1/8" and 11-1/4" long. Weight lbs. 1.625. Both these tools, P317 & P319, can be used for separating most any machined members.

9

### P325 & 326 UNIVERSAL WHEEL PULLER & ADAPTER

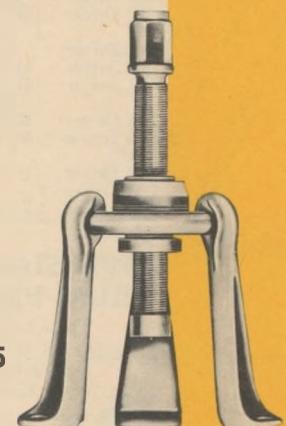
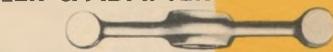
Most of the cars requiring a puller can be covered by P325 and P326. The adjustable legs make it possible to adapt to any hub, regardless of number of studs.

The special Adapter (P326) enables the puller to be used in many additional operations.

P325 (Hub Puller)                    Shipping Wt. Lbs. 10.0

P326 (Adapter)                    Shipping Wt. Lbs. 3.0

Maximum spread 7-1/2", maximum reach 4-7/8".



P325

P326



## 2553 & 2554 RIM WRENCHES



These rim wrenches cover practically all sizes of passenger car and truck wheel nuts. 2553 has 6 point openings of  $3/4"$ ,  $3/4"$ ,  $3/16"$ , and  $7/8"$  and is 20" long. SHIPPING WEIGHT 8 LBS. The 2554 has openings from 4 point to 6 point as follows:  $13/16"$  4 point,  $7/8"$ ,  $1"$ ,  $1-1/16"$ ,  $1-3/16"$ , and  $1-1/2"$  6 point, overall length 25". SHIPPING WEIGHT 12 LBS.

## 2680 BRAKE SPRING PLIER (Patented)



This plier is designed for easy removal and replacement of internal brake springs on cars and trucks of all sizes. The hooked end of the plier grips the brake spring firmly while the "goose neck" end of the plier makes firm contact with the brake lining, preventing slippage. SHIPPING WEIGHT .687 LBS.

## BU40B BUSHING DRIVER SET



This set is designed to drive all passenger car bushings as well as many truck and tractor bushings. Tools are made of alloy steel, hardened and tempered to give the best service. Packaged in metal box. 22 PIECES, SHIPPING WEIGHT 4.063 LBS.

Tool No.	Bushing I.D.	Drive O.D.	Fits Hdl. #	Tool No.	Bushing I.D.	Drive O.D.	Fits Hdl. #
40-1A Driver	$3/8$	$7/16$	42-1, 42-2	41-7 Driver	$1-1/8$	$1-1/4$	42-3
40-2 Driver	$7/16$	$1/2$	42-1, 42-2	41-7A Driver	$1-3/16$	$1-5/16$	42-3
40-3 Driver	$1/2$	$9/16$	42-1, 42-2	41-8 Driver	$1-1/4$	$1-3/8$	42-3
40-5 Driver	$9/16$	$5/8$	42-1, 42-2	42-1 Handle	$7/16$ Dia. x $5"$	Long	
40-7 Driver	$[39/64]$	$43/64$	42-1, 42-2	42-2 Handle	$5/8$ Dia. x $6"$ Long		
	$5/8$	$11/16$		42-3 Handle	$13/16$ Dia. x $7-7/16"$ Long		
40-8 Driver	$5/8$	$3/4$	42-1, 42-2	43-1 Nut		Fits 42-1 & 42-2	
40-9 Driver	$11/16$	$13/16$	42-1, 42-2	43-2 Nut		Fits 42-3	
41-1 Driver	$[47/64]$	$55/64$	42-3	40-7 will drive Chevrolet Six Water Pump			
	$3/4$	$7/8$		Bushing.			
41-2 Driver	$13/16$	$15/16$	42-3	41-1 will drive Chevrolet Six King Bolt			
41-3 Driver	$[55/64]$	$63/64$	42-3	Bushing.			
	$7/8$	$1$		41-3 will drive Chevrolet Six King Bolt			
41-4 Driver	$15/16$	$1-1/16$	42-3	Bushing.			
41-5 Driver	$1$	$1-1/8$	42-3	(Size .866 knee action car and Chevrolet			
41-6 Driver	$1-1/16$	$1-3/16$	42-3	piston pin bushing.)			

## SCREW STARTERS FOR SLOTHEAD AND PHILLIPS HEAD SCREWS



These tools provide a positive gripping for starting screws in hard to get at places. The starters for slothead screws feature a spring locking blade while those for the Phillips type have a magnet head which holds the screw in place.

Blade Head	Wt. Lbs.	Blade Head with Nylon Handles	Wt. Lbs.	Magnet Head	Wt. Lbs.
SS25— $2-1/2"$	.018	SSN6— $6"$	.031	SS3— $3-1/4"$	.031
SS27— $5"$	.038	SSN9— $9"$	.038	SS6— $6-1/4"$	.056
SS29— $9"$	.062				
SS31— $15"$	.109				



## NO. K50 BRAKE ADJUSTING GAUGE

For measuring clearance between brake drum and shoe. 9 blades 4" long x 1/4" wide in the following thicknesses—.002; .004; .005; .006; .007; .008; .010; .012; .015.

WEIGHT LBS. .038



## NO. K51 GENERAL PURPOSE GAUGE

Especially for tappet and ignition work—the most popular gauge on the market. 11 blades 1-5 8" long x 1 4" wide, 10 blades 3-5/16" long x 1/2" wide and 3" point file. Short blades in following thicknesses—.012; .013; .014; .015; .018; .020; .022; .024; .025; .028; .032. Long blades in following thicknesses—.002; .003; .004; .005; .006; .007; .008; .010; .013; .015.

WEIGHT LBS. .131



## NO. K52 IGNITION GAUGE

Contains 11 blades 1-5 8" long x 1 4" wide and 3" point file for ignition, distributor points and spark plugs. Thickness of blades included as follows—.012; .013; .014; .015; .018; .020; .022; .025; .028; .032 and .035.

WEIGHT LBS. .091



## NO. K53 UNIVERSAL MASTER GAUGE

Has full range of spacers—25 blades, each 3-5 16" long x 1 2" wide in following thicknesses—.0015; .002; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .018; .020; .022; .024; .025; .028; .030; .032 and .035.

WEIGHT LBS. .206



10

## NO. K54 STANDARD FEELER GAUGE

Contains 10 blades 3-5/16" long x 1/2" wide in following sizes—.002; .003; .004; .005; .006; .007; .008; .010; .012 and .015.

WEIGHT LBS. .075



## NO. K55 EXTRA LONG FEELER GAUGE

Exceptionally useful for pistons, etc. Has 8 blades, each 8-3 4" long x 1 2" wide in the following sizes—.002; .003; .004; .005; .006; .008; .010; .015.

WEIGHT LBS. .156



## NO. K56 SINGLE END FEELER GAUGE STOCK HOLDER

(Positive Adjustable Lock)

Any thickness of feeler gauge stock coiled within the handle and can readily be pulled out for use. Any desired length of strip stock or standard 12" blades may be used. Positive sliding lock securely holds blades. Made from hard drawn, cold rolled steel and satin nickel plated.

LENGTH 4-1/2"

WEIGHT LB. .084



## NO. K57 SPARK PLUG GAUGE

Wire Spark Plug Feeler Gauge with electrode bending tool attached. Wires are .022, .025, .028, .030, .032, .035, .038, .040 by 1-5 8" long. Each wire is in a blade type holder with the size stamped on it for easy identification.

WEIGHT LBS. .056



## TOOLS FOR MISCELLANEOUS REQUIREMENTS



### K58 FEELER GAUGE FOR FORDS

(7 BLADES)



BONNEY

#### EXTRA BLADES

Designed to fit practically any holder, the 3-5/16" blades are available in all the popular range of thicknesses and with hole for insertion in gauges. The 12" lengths are popular for use in the No. K56 Stock Holder which makes the blades usable to the end. Both 3-5/16" and 12" blades are packed 6 in a cellophane envelope. Sizes are listed below.

#### FEELER GAUGES—Pk. of 6

Wt. per 10 packages

1/2" x 3-1/2" Blades

No.	Thkns.	Wt.	No.	Thkns.	Wt.
K0015	.0015	.006	K018	.018	.047
K002	.002	.006	K018B	.018	.047
K003	.003	.009	K019	.019	.050
K004	.004	.013	K019B	.019	.050
K005	.005	.016	K020	.020	.053
K006	.006	.019	K021	.021	.056
K007	.007	.022	K021B	.021	.056
K008	.008	.022	K022	.022	.059
K009	.009	.028	K024	.024	.063
K010	.010	.028	K025	.025	.066
K011	.011	.031	K028	.028	.075
K012	.012	.034	K030	.030	.078
K013	.013	.034	K032	.032	.084
K014	.014	.038	K035	.035	.094
K015	.015	.041	K040	.040	.106
K016	.016	.044			

#### LARGE FEELER GAUGES—Pk. of 6

Wt. per 10 packages

1/2" x 12" Blades

No.	Thkns.	Wt.	No.	Thkns.	Wt.
KL0015	.0015	.019	KL015	.015	.156
KL002	.002	.022	KL016	.016	.159
KL003	.003	.031	KL017	.017	.175
KL004	.004	.044	KL018	.018	.184
KL005	.005	.050	KL019	.019	.188
KL006	.006	.066	KL020	.020	.200
KL007	.007	.069	KL021	.021	.213
KL008	.008	.081	KL022	.022	.225
KL009	.009	.094	KL024	.024	.238
KL010	.010	.100	KL025	.025	.245
KL011	.011	.113	KL028	.028	.288
KL012	.012	.122	KL032	.032	.316
KL013	.013	.122	KL033	.033	.344
KL014	.014	.138	KL035	.035	.344
KL015	.015	.152	KL040	.040	.400

192



#### SIX-FOOT RULE

This handy six-foot rule has a white blade which gives both inside and outside measurements.

WEIGHT LBS. .235

#### 197 PUTTY KNIFE



Especially handy for removing gaskets, grease, etc. The flexible steel blade and the oval handle give a quality appearance to this putty knife. The blade is 1-1/4" wide, 3-3/4" long, over-all length of the knife is 7-3/4".

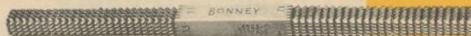
WEIGHT LBS. .094



## TOOLS FOR MISCELLANEOUS REQUIREMENTS

### THREAD RESTORERS

TR1 for 11, 12, 13, 14, 16, 18, 20, 24 threads to inch. Weight lbs. .375.  
 TR2 for 9, 10, 12, 16, 20, 27, 28, 32 threads to inch. Weight lbs. .338.  
 These restorers are fast cutting and do a quick job in restoring battered or damaged threads. Available in the two above sizes, TR1 and TR2.



### TR7 AND TR8

Bolt Dia.	TR7 S.A.E. Thd. Per In.	TR8 U.S.S. Thd. Per In.	Hexagon Size
1/4	28	20	7/16
5/16	24	18	1/2
3/8	24	16	9/16
7/16	20	14	5/8
1/2	20	13	3/4
9/16	18		
5/8	18	11	15/16
3/4	16	10	1-1/16



This set of restorers is used to re-chase battered or damaged threads so that the nut will run on freely. These are not to be used as dies on new work. The TR8 set does not include 9/16 twelve thread restorer.

TR7 SET WEIGHT LBS. .403

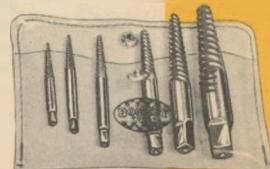
TR8 SET WEIGHT LBS. .419

10

### SER SCREW EXTRACTORS

Especially useful to remove broken studs or screws up to 1" in diameter. To remove the broken object a hole is drilled and the extractor with a left hand thread is screwed in until it grips and turns out the imbedded part.

No.	Length Overall	Size Drill to Use	For Screw and Bolt Sizes	Wt. Lb.
SE1	2	5/64	3/16—1/4	.009
SE2	2-3/8	7/64	1/4—5/16	.015
SE3	2-11/16	5/32	5/16—7/16	.031
SE4	3	1/4	7/16—9/16	.059
SE5	3-3/8	17/64	9/16—3/4	.097
SE6	3-3/4	13/32	3/4—1	.200
SER				.447



SER Set is furnished in leatherette roll, LR5.

### 199 SHOP KNIFE

This knife serves as a multi-purpose tool for any mechanic's kit. Can be used for trimming upholstery, rubber, leather, or for cutting gaskets, shims, cardboard, etc.

WEIGHT LBS. .253



### 199B PACKAGE OF BLADES

The 199 shop knife comes equipped with 5 blades incased in the handle. Extra blades are furnished in packages of 5 by part No. 199B.

WEIGHT LBS. .031

**CS1 CARBON SCRAPER**

The flexibility of the tempered spring steel aids greatly in speeding up carbon scraping jobs. The scraper blade is 1" wide.

WEIGHT LBS. .303

**RC46 RING GROOVE CLEANER**

**RC47**

In addition to the cleaning or scraping qualities this tool also is used as a groove deepening tool, has a positive cutter lock. The cutter is easily removed for resharpening or replacement.

WEIGHT LBS. .519

Performs the same function as the RC46 but has a special cutter blade which enables use on other models of cars.

WEIGHT LBS. .525

**PISTON RING COMPRESSORS**

Compressors RC41, RC43, and RC44 are held with a friction lock device, whereas RC43A, RC44A, and RC45A are of the ratchet type. All of these compressors are made of the finest steel available. Easy operating mechanism equipped with wind-up spool with 1/4" square drive socket and key. The RC41 can be used on power mowers, garden and tractor motors.

Tool No.	Size	Length	Wt. Lbs.
RC41	1-1/2 to 3	Single Band	.306
RC43	2-1/8 to 5	3-3/16	.588
RC44	3-1/2 to 7	2-1/2	.688
RC43A	2-1/8 to 5	3-1/2	.738
RC44A Ratchet Type	3-1/2 to 7	3-1/8	.813
RC45A Ratchet Type	3-1/2 to 7	6-1/2	1.638

**HANDY HOLDING TOOLS**

These mechanical fingers are ideal for picking up objects that are dropped in tight places and also used for inserting starting and removing screws in hard to get at places.

No.	Reach	Overall Length	Wt. Lbs.
K4	4"	6-3/4	.113
K6	6"	8-3/4	.144
K8	8"	10-3/4	.175
KF	12"	14-3/4	.238

**K26 POCKET MAGNETIC PICK-UP TOOL**

The extra strong magnet in this tool will hold up to 3/4 of a pound. This tool is of standard pencil length.

WEIGHT LBS. .063

**MAGNETIC HOLDING TOOLS**

Tool No.	Length	Wt. Lbs.
K1	9"	.091
K2	27" extended	.416

Extremely useful for extracting metal objects from tight places where a straight tool will not reach. The larger tool, K2, has a telescope type extension and will give extra length when needed.

**NON-REVERSIBLE RATCHET**

This ratchet is made in 4 different size ratchet openings. Forged of high grade alloy steel with plated finish. These ratchets are designed to perform operations on refrigerant cylinders, shut-off and reducing valves. Also many operations on compressors, motors, etc.



Part No.	Ratchet Opening	Handle Opening	Across Ratchet Head	Across Handle Head	Length	Wt., Lbs.
RF21	3/16	1/2	1-5/32	13/16	6	.338
RF22	1/4	1/2	1-5/32	13/16	6	.338
RF23	5/16	1/2	1-5/32	13/16	6	.338
RF25	3/8	1/2	1-5/32	13/16	6	.322

**RF45 REVERSIBLE RATCHET**

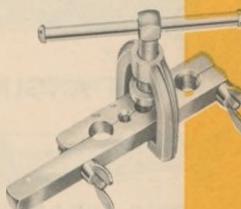
Primarily designed for refrigeration work, this ratchet has easy action, light in weight, streamlined, sturdy construction, featuring ratchet lever that can be easily reversed with a touch of the thumb.



Part No.	Ratchet Opening	Across Ratchet Head	Length	Weight Lbs.
RF45	1/4	1	6	.281

**RF46 FLARING TOOL**

This tool is made of high grade steel, carefully machined and heat treated for long, dependable life. Accommodates all common sizes of tubing. This tool is 3/8" wide, 6-1/2" long, has a capacity of 3/16" to 5/8" tubing. SHIPPING WEIGHT LBS. 2.038.



11

**RF47 PINCH-OFF TOOL (patent pending)**

This tool is used primarily to pinch off tubing as well as restoring the tubing to correct shape after the service work is complete. This tool features a quick operating, freeing, and locking action. The RF47 is 2-1/4" wide, 4" long, will accommodate tubing from 1/4" through 1/2" in diameter. SHIPPING WEIGHT LBS. .703.

**RF59 TUBE CUTTER**

A convenient cutter for tubing from 1/8" to 1" O.D. Makes cutting easy with little or no burr. The RF59 is 2" wide, 5" long. SHIPPING WEIGHT LBS. .588.

**1964 OPEN END WRENCH FOR SUPERIOR PACKLESS VALVE**

This single head wrench is designed especially to fit the hexagon on the auxiliary body of the Superior diaphragm packless valve. See Section 2 for complete specifications on wrench #1964.





## BONNEY TUBE BENDERS

These are ideal for bending copper and other tubing to any desired shape without danger of collapsing the tubing. Made of special oil hardened spring steel, cadmium plated. The bell shaped end assures convenient insertion and removal of the tubing. These tube benders come in 6 sizes.



Part No.	Width (Bell End)	Tube Size	Length	Weight Lbs.
RF60	3/4	1/4	10	156
RF61	7/8	5/16	10	187
RF62	1	3/8	10	247
RF63	1-1/8	7/16	12	384
RF64	1-1/4	1/2	12	438
RF65	1-1/4	5/8	12	531

## RF66 TUBE BENDER SET

Consists of one each of the above. See Section 16, Page 20 for description.

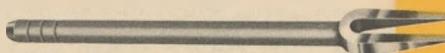
For information on all refrigeration tool sets see Section 16, Page 20.



## RIGHT ANGLE WRENCHES



## P317 SEPARATOR



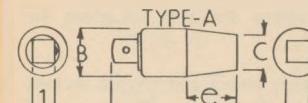
Make quick work of removing pulleys in tight places with this Bonney fork wedged separator. The tool is inserted between the pulley hub and the compressor or motor housing after the set screw has been removed. A few light taps on the end of the separator brings the pulley off the shaft.



## FLARE NUT WRENCH

Designed especially for making flare nut adjustments, these wrenches are drop forged, chromium plated, with polished heads. Designed long and thin with paneled handles for comfortable grip. Heads are 12 point.

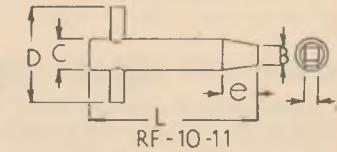
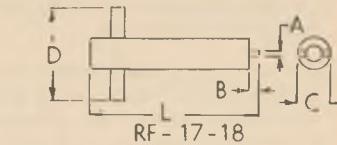
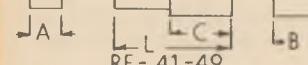
Part No.	Opening Small Head	Opening Large Head	Across Small Head	Across Large Head	Width of Slot, Small Head	Width of Slot, Large Head	Length	Weight Lbs.
RF54	3/4	1	1-7/32	1-5/8	17/32	11/16	8	.456
RF54A	3/4	7/8	1-7/32	1-5/8	17/32	5/8	8	.488
RF55	7/8	1-1/8	1-13/32	1-27/32	5/8	25/32	9-1/2	.788
RF55A	7/8	1	1-13/32	1-27/32	5/8	11/16	9-1/2	.856



RF-2-3-4-5-7

RF-6-16-71-72-73

RF-41-49

RF 67  
KEROTEST VALVE SOCKET

Part No.	Type	A	B	C	e	L	D	Weight Lbs.
RF2	a	3/16	1/2	27/64	17/32	1-5/16	—	.050
RF3	b	1/4	1/2	—	—	1-5/16	—	.050
RF4	b	5/16	9/16	—	—	1-5/16	—	.059
RF5	b	7/32	1/2	—	—	1-5/16	—	.053
RF7	b	3/8	21/32	—	—	1-5/16	—	.081
RF6	—	1/8	1/8	3/8	—	1-5/16	5/8	.059
RF16	—	1/8	1/8	21/64	—	1-11/16	15/32	.041
RF71	—	3/32	3/32	5/16	—	1-9/16	7/16	.031
RF72	—	1/8	1/8	21/64	—	1-5/8	15/32	.041
RF73	—	1/8	1/8	3/8	—	1-5/8	5/8	.075
RF41	—	1/4	3/8	9/16	—	1-1/8	—	.028
RF49	—	1/4	1/4	9/16	—	31/32	—	.015
RF10	a	3/16	27/64	1/2	17/32	1-7/8	3-3/4	.134
RF11	a	7/32	27/64	1/2	17/32	1-7/8	3-3/4	.138
RF12	b	1/4	1/2	1/2	—	1-7/8	3-3/4	.138
RF13	b	5/16	9/16	9/16	—	1-7/8	3-3/4	.156
RF14	b	3/8	5/8	5/8	—	1-7/8	3-3/4	.181
RF17	—	7/64	1/8	15/32	—	2	3-3/4	.109
RF18	—	7/64	1/8	9/16	—	2	3-3/4	.144
RF67	—	3/8	1/2	5/8	—	1-1/2	—	.063



PACKING GLAND NUT SOCKETS

1/4" MALE DR.  
RF6-16-71-72-73T HANDLE  
VALVE STEM  
SOCKET  
RF10-11  
12-13-141/4" MALE DR.  
RF2-3-4-5-7RAT TAIL PLUG  
ADAPTORS  
RF41-49



Bonney offers a complete line of heavy duty wrenches and sockets on the following pages. Complete specifications and sets are given for each of the various tools.

Ask about the special brochure which lists power and impact sockets and attachments which are not shown in this catalog. For a copy of this brochure, write to the Advertising Department of Bonney Forge & Tool Works, 2400 North Rockhill Road, Alliance, Ohio.

## POWER AND IMPACT SOCKETS

These sockets are made to take a "beating" under the rugged service which they are called upon to perform. The sockets are held in position by means of a pin and band assembly. Send for free brochure on industrial tools not listed in this catalog. Bonney offers a complete range of sizes in power and impact sockets. Because of the hard usage and constant pounding of impact tools to which these sockets are subjected, broken sockets cannot be replaced indiscriminately. These sockets are made of quality material and properly heat treated and under normal conditions will give maximum service.

## ATTACHMENTS AND ADAPTOERS

A complete range of attachments and adaptors from 3/8" square drive to and including 5/8" square drive round out the attachment and adaptor line.

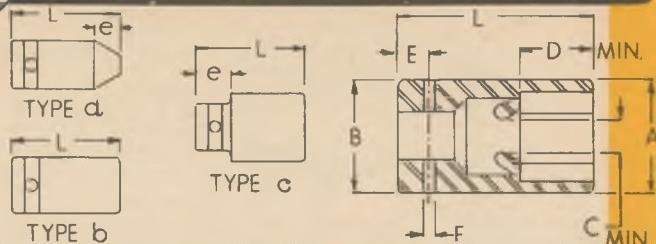
## HEAVY DUTY WRENCHES

Included in the Bonney line of wrenches are:

Striking Face Box Wrenches	Pin Spanners
Structural Wrenches	Double Head Open End Wrenches
Construction Wrenches	Single Head Open End Wrenches
Double Head Thin Check	"T" Handle Wrenches
Nut Wrenches	Off-set Socket Handle Wrenches

All of the Bonney heavy duty wrenches are made to exacting specifications for dependable service and longer life. For complete information and specifications on the various wrenches see Section 13, Pages 1 through 7. There are many operations in industrial plants which call for heavy duty wrenches. Bonney feels that the selection of sockets and wrenches offered on the following pages is adequate to cover most of these requirements.

**POWER & IMPACT SOCKETS—ATTACHMENTS**



Part No.	Nom. Open-	Type	A	B	C	D	L	E	F	Wt. Lbs.
----------	------------	------	---	---	---	---	---	---	---	----------

**3/8 IN. SQUARE DRIVE REG. LENGTH SIX POINT**

P-2212	3/8	a	35/64	11/16	9/32	9/32	5/16	7/8	7/32	11/64 .38
P-2214	7/16	a	41/64	11/16	5/16	9/32	5/16	7/8	7/32	11/64 .38
P-2216	1/2	b	47/64	47/64	3/8	9/32	—	7/8	7/32	11/64 .40
P-2218	9/16	b	13/16	13/16	7/16	9/32	—	7/8	7/32	11/64 .40
P-2220	5/8	b	7/8	7/8	1/2	9/32	—	7/8	7/32	11/64 .41
P-2222	11/16	b	61/64	61/64	1/2	13/32	—	1	7/32	11/64 .41
P-2224	3/4	b	1-1/32	1-1/32	9/16	13/32	—	1	7/32	11/64 .45

Ref.: Fed. Spec. GGG-W-660, Type 1, Class 1, Style A.

**1/2 IN. SQUARE DRIVE REG. LENGTH SIX POINT**

P-3212	3/8	a	5/8	1	9/32	1/4	9/16	1-1/2	5/16	13/64 .15
P-3214	7/16	a	25/32	1	9/32	1/4	9/16	1-1/2	5/16	13/64 .15
P-3216	1/2	a	25/32	1-1/16	11/32	1/4	9/16	1-1/2	5/16	13/64 .18
P-3218	9/16	a	7/8	1-1/16	13/32	1/4	9/16	1-1/2	5/16	13/64 .18
P-3220	5/8	a	61/64	1-1/8	15/32	3/8	9/16	1-1/2	5/16	13/64 .20
P-3222	11/16	a	1-1/32	1-1/8	15/32	3/8	9/16	1-1/2	5/16	13/64 .20
P-3224	3/4	b	1-1/8	1-1/8	9/16	7/16	—	1-1/2	5/16	13/64 .24
P-3226	13/16	b	1-3/16	1-3/16	5/8	7/16	—	1-1/2	5/16	13/64 .28
P-3228	7/8	b	1-5/16	1-5/16	5/8	1/2	—	1-5/8	5/16	13/64 .33
P-3230	15/16	b	1-3/8	1-3/8	11/16	1/2	—	1-3/4	5/16	13/64 .45
P-3232	1	b	1-7/16	1-7/16	11/16	1/2	—	1-3/4	5/16	13/64 .50
P-3234	1-1/16	b	1-33/64	1-33/64	13/16	7/8	—	2	5/16	13/64 .60
P-3236	1-1/8	b	1-39/64	1-39/64	7/8	7/8	—	2	5/16	13/64 .74
P-3238	1-3/16	b	1-11/16	1-11/16	7/8	7/8	—	2	5/16	13/64 .80
P-3240	1-1/4	b	1-25/32	1-25/32	15/16	15/16	—	2	5/16	13/64 .88

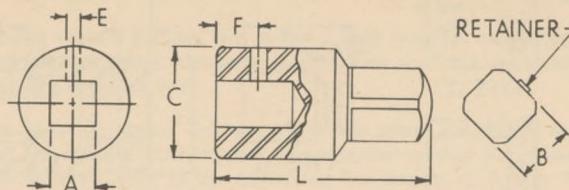
Ref.: Fed. Spec. GGG-W-660, Type 1, Class 1, Style A.

**3/4 IN. SQUARE DRIVE REG. LENGTH SIX POINT**

I-5224	3/4	a	1-1/4	1-5/8	9/16	19/32	31/64	2-1/4	13/32	17/64 .90
I-5226	13/16	a	1-3/8	1-5/8	19/32	39/64	21/64	2-1/4	13/32	17/64 .90
I-5228	7/8	a	1-1/2	1-5/8	21/32	21/32	21/64	2-1/4	13/32	17/64 .90
I-5230	15/16	a	1-9/16	1-5/8	11/16	3/4	21/64	2-3/8	13/32	17/64 .93
I-5232	1	b	1-5/8	1-5/8	3/4	3/4	—	2-3/8	13/32	17/64 .94
I-5234	1-1/16	b	1-11/16	1-11/16	13/16	7/8	—	2-1/2	13/32	17/64 .98
I-5236	1-1/8	b	1-3/4	1-3/4	7/8	7/8	—	2-1/2	13/32	17/64 1.08
I-5238	1-3/16	b	1-7/8	1-7/8	7/8	7/8	—	2-1/2	13/32	17/64 1.21
I-5240	1-1/4	b	2	2	15/16	15/16	—	2-5/8	13/32	17/64 1.45
I-5242	1-5/16	b	2-1/16	2-1/16	15/16	1	—	2-5/8	13/32	17/64 1.58
I-5244	1-3/8	b	2-1/8	2-1/8	1	1-1/32	—	2-3/4	13/32	17/64 1.65
I-5246	1-7/16	b	2-1/4	2-1/4	1-1/16	1-1/16	—	2-3/4	13/32	17/64 1.78
I-5248	1-1/2	b	2-5/16	2-5/16	1-1/16	1-1/8	—	2-3/4	13/32	17/64 2.05
I-5252	1-5/8	b	2-7/16	2-7/16	1-3/16	1-3/16	—	2-3/4	13/32	17/64 2.28

Ref.: Fed. Spec. GGG-W-660, Type 1, Class 1, Style A.

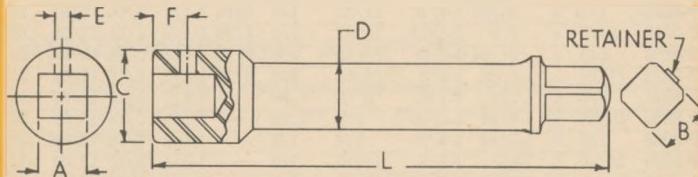




## ADAPTORS



Part No.	Square Drive	A	B	C	E	F	L	Weight Lbs.	Retainer
AP-23	3/8	3/8	1/2	1	11/64	7/32	1-1/2	.20	Pin
Ref.: Fed. Spec. GGG-W-660, Type 3.									
AP-32	1/2	1/2	3/8	1	13/64	5/16	1-1/2	.26	Pin
Ref.: Fed. Spec. GGG-W-660, Type 3.									
AP-43	1/2	5/8	1/2	1-1/8	13/64	5/16	1-53/64	.30	Pin
Ref.: Fed. Spec. GGG-W-660, Type 3.									
AP-53	3/4	3/4	1/2	1-5/8	17/64	13/32	2-5/32	.64	Pin
Ref.: Fed. Spec. GGG-W-660, Type 3.									



## EXTENSIONS

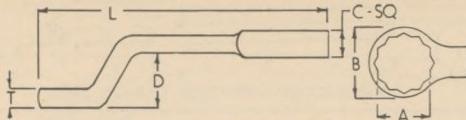


Part No.	Square Drive	A	B	C	D	E	F	L	Wt. Lbs.	Retainer
EP-2-3	3/8	3/8	3/8	11/16	7/16	11/64	7/32	3	.13	Pin
EP-2-6	3/8	3/8	3/8	11/16	7/16	11/64	7/32	6	.25	Pin
Ref.: Fed. Spec. GGG-W-660, Type 2.										
EP-3-5	1/2	1/2	1/2	1-1/16	5/8	13/64	5/16	5	.40	Pin
EP-3-10	1/2	1/2	1/2	1-1/16	5/8	13/64	5/16	10	.91	Pin
Ref.: Fed. Spec. GGG-W-660, Type 2.										
EP-5-4	3/4	3/4	3/4	1-3/4	1-3/16	17/64	13/32	3-1/2	1.20	Pin
EP-5-10	3/4	3/4	3/4	1-3/4	1-1/4	17/64	13/32	10	3.43	Pin
Ref.: Fed. Spec. GGG-W-660, Type 2.										

ASK FOR INDUSTRIAL BROCHURE WHICH SHOWS COMPLETE LINE OF  
BONNEY TOOLS FOR HEAVY DUTY JOBS.

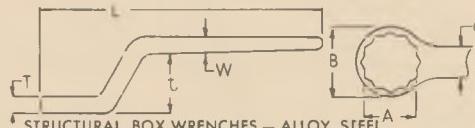


## HEAVY DUTY WRENCHES



STRIKING FACE BOX WRENCHES - ALLOY STEEL

Part No.	A	B	C	D	L	T	Weight Lbs.
8807	1-1/16	1-11/16	1-5/32	1-5/16	10-1/2	13/16	2.125
8807A	1-1/8	1-11/16	1-5/32	1-5/16	10-1/2	13/16	2.140
8808	1-1/4	2	1-5/32	1-3/8	11	7/8	2.453
8808A	1-5/16	2	1-5/32	1-9/16	11	7/8	2.563
8809	1-7/16	2-1/4	1-5/16	1-1/2	11-1/2	1	3.400
8809A	1-1/2	2-1/4	1-5/16	1-1/2	11-1/2	1	3.418
8810	1-5/8	2-1/2	1-1/2	1-9/16	12	1-1/16	4.488
8810A	1-11/16	2-1/2	1-1/2	1-9/16	12	1-1/16	4.288
8811	1-13/16	2-13/16	1-9/16	1-3/4	12-1/2	1-1/8	5.575
8811A	1-7/8	2-13/16	1-9/16	1-3/4	12-1/2	1-1/8	5.550
8812	2	3-15/32	1-9/16	1-13/16	13-1/2	1-3/8	6.112
8813	2-3/16	3-15/32	1-3/4	2	13-1/2	1-3/8	8.613
8813A	2-1/4	3-15/32	1-13/16	1-15/16	13-1/2	1-3/8	8.613
8814	2-3/8	3-29/32	1-3/4	2-1/2	14-1/2	1-9/16	9.594
8815	2-9/16	3-29/32	1-15/16	2-1/4	14-1/2	1-9/16	10.575
8815A	2-5/8	3-29/32	1-15/16	2-1/4	14-1/2	1-9/16	10.487
8816	2-3/4	4-21/32	2	2-1/4	16	1-13/16	10.813
8816B	2-15/16	4-21/32	2-1/8	2-5/16	16	1-13/16	15.094
8817A	3	4-15/16	2-1/4	2-9/16	16-1/2	2	17.775
8817	3-1/8	4-15/16	2-1/4	2-9/16	16-1/2	2	17.344



STRUCTURAL BOX WRENCHES - ALLOY STEEL

Part No.	A	B	C	L	T	t	W	Weight Lbs.
8907	1-1/16	1-11/16	3/4	15-1/2	13/16	1-5/16	3/4	1.525
8907A	1-1/8	1-11/16	3/4	15-1/2	13/16	1-5/16	3/4	1.562
8908	1-1/4	1-15/16	13/16	17	7/8	1-7/16	13/16	2.058
8908A	1-5/16	1-15/16	13/16	17	7/8	1-7/16	13/16	2.058
8909	1-7/16	2-3/16	1	20-1/2	15/16	1-7/16	1	3.475
8909A	1-1/2	2-3/16	15/16	21	1	1-5/8	1	3.670
8910	1-5/8	2-11/16	1-1/16	22	1-1/16	1-7/8	1	5.900
8910A	1-11/16	2-11/16	1	21-3/4	1	1-9/16	1	4.625
8911	1-13/16	2-11/16	1-1/8	23	1-1/8	1-3/4	1-1/8	5.463
8911A	1-7/8	2-13/16	1-1/8	23	1-1/8	1-3/4	1-1/8	5.463
8912	2	2-15/16	1-1/8	24	1-1/4	1-13/16	1-1/8	6.063
8913	2-3/16	3-1/4	1-1/4	26	1-3/8	2	1-1/4	8.263
8914	2-3/8	3-5/8	1-1/4	28	1-1/2	2	1-1/4	8.283
8915	2-9/16	3-13/16	1-5/16	29-1/4	1-5/8	2-1/4	1-5/16	8.013
8916	2-3/4	4-1/8	1-5/16	28-3/4	1-11/16	2-5/16	1-5/16	11.700

Ref.: Fed. Spec. GGG-W-636a, Type 12.

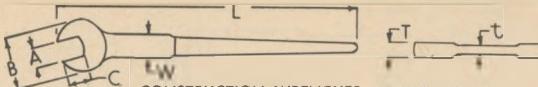
13



## STRUCTURAL WRENCHES

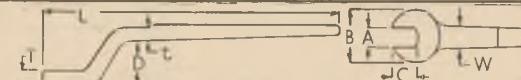


HEADS NOT BRIGHT  
15° ANGLE



CONSTRUCTION WRENCHES - CARBON STEEL

Part No.	A	B	C	L	T	Wt. Lbs.
201A	7/16	1-3/16	9/16	9-1/2	3/8	.27
201	1/2	1-3/16	5/8	9-1/2	3/8	.27
201B	9/16	1-3/16	11/16	9-1/2	3/8	.27
203A	5/8	1-9/16	25/32	12	7/16	.53
203	11/16	1-9/16	27/32	12	7/16	.53
204A	3/4	1-9/16	29/32	12	7/16	.53
205A	13/16	2-3/32	31/32	14-1/2	17/32	1.0
205	7/8	2-3/32	31/32	14-1/2	17/32	1.0
206	31/32	2-3/32	1-1/16	14-1/2	17/32	1.0
206B	1	2-3/32	1-1/16	14-1/2	17/32	1.0
207	1-1/16	2-1/2	1-1/4	17-1/4	19/32	1.7
207A	1-1/8	2-1/2	1-1/4	17-1/4	19/32	1.7
208	1-1/4	2-29/32	1-3/8	19	21/32	2.6
208A	1-5/16	2-29/32	1-3/8	19	21/32	2.6
209	1-7/16	3-5/16	1-9/16	21	23/32	3.7
209A	1-1/2	3-5/16	1-9/16	21	23/32	3.7
210	1-5/8	3-11/16	1-13/16	23	7/8	5.3
210A	1-11/16	3-11/16	1-13/16	23	7/8	5.3
211	1-13/16	4	2-5/16	25	15/16	7.3
211A	1-7/8	4	2-7/16	25	15/16	7.3
212	2	4	2-9/16	25	15/16	7.3

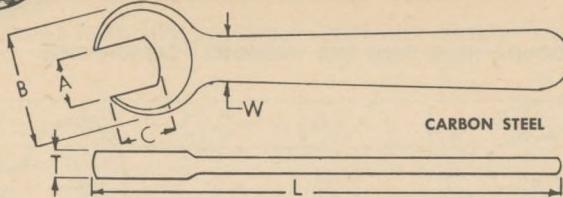


STRUCTURAL WRENCHES - CARBON STEEL

HEADS NOT BRIGHT  
STRAIGHT

Part No.	A	B	C	D	L	T	Wt. Lbs.
901A	7/16	1-3/16	11/16	3/4	9-1/2	11/32	.32
901	1/2	1-3/16	11/16	3/4	9-1/2	11/32	.32
901B	9/16	1-3/16	11/16	3/4	9-1/2	11/32	.32
903A	5/8	1-9/16	7/8	13/16	12	7/16	.63
903	11/16	1-9/16	7/8	13/16	12	7/16	.63
904A	3/4	1-9/16	7/8	13/16	12	7/16	.63
905A	13/16	2	1-1/8	15/16	14-1/2	17/32	1.2
905	7/8	2	1-1/8	15/16	14-1/2	17/32	1.2
906	31/32	2	1-1/8	15/16	14-1/2	17/32	1.2
906B	1	2	1-1/8	15/16	14-1/2	17/32	1.2
907	1-1/16	2-1/4	1-9/32	1-1/16	17	5/8	1.9
907A	1-1/8	2-1/4	1-9/32	1-1/16	17	5/8	1.9
908	1-1/4	3	1-5/8	1-1/4	19-1/2	3/4	2.8
908A	1-5/16	3	1-5/8	1-1/4	19-1/2	3/4	2.8
909	1-7/16	3	1-5/8	1-1/4	19-1/2	3/4	2.8
909A	1-1/2	3	1-5/8	1-1/4	19-1/2	3/4	2.8
910	1-5/8	3-3/8	1-15/16	1-7/16	23	13/16	5.6
910A	1-11/16	3-3/8	1-15/16	1-7/16	23	13/16	5.6
911	1-13/16	3-3/8	1-15/16	1-7/16	23	13/16	5.6
911A	1-7/8	3-3/8	2	1-7/16	23	13/16	5.6
912	2	3-3/8	2-1/8	1-7/16	23	13/16	5.6





FINISHED IN  
BLACK ENAMEL,  
BRIGHT HEADS



Part No.	A	B	C	L	T	Wt. Lbs.
00	5/16	5/8	23/64	3-1/2	3/16	.07
700	3/8	13/16	29/64	4	9/32	.09
1	1/2	1	37/64	4-5/8	5/16	.13
702	9/16	1-3/16	11/16	5-1/2	21/64	.21
703	5/8	1-3/8	51/64	6-3/8	11/32	.30
3	11/16	1-3/8	51/64	6-3/8	11/32	.30
704	3/4	1-9/16	27/32	7-1/4	3/8	.38
705	13/16	1-7/8	15/16	8-1/8	7/16	.60
5	7/8	1-7/8	15/16	8-1/8	7/16	.60
6	31/32	2-1/8	1-1/16	9-1/4	7/16	.95
706	1	2-1/8	1-1/8	9-1/4	7/16	.95
7	1-1/16	2-3/16	1-3/16	10-1/2	9/16	1 30
707	1-1/8	2-3/16	1-1/4	10-1/2	9/16	1 30
8	1-1/4	2-3/4	1-7/16	12	19/32	2.1
708A	1-3/8	2-3/4	1-1/2	12	19/32	2.1
9	1-7/16	3-1/8	1-5/8	13-1/2	5/8	2.5
709	1-1/2	3-1/8	1-11/16	13-1/2	5/8	2.5
10	1-5/8	3-1/2	1-15/16	15	7/8	3.7
10A	1-11/16	3-1/2	2	15	7/8	3.7
11	1-13/16	3-3/4	2-1/16	16-1/2	15/16	4.3
11A	1-7/8	3-3/4	2-1/8	16-1/2	15/16	4.3
12	2	4-1/4	2-3/8	18-1/4	1	6.2
12A	2-1/16	4-1/4	2-1/2	18-1/4	1	6.2
13	2-3/16	4-7/16	2-5/8	20	1-1/16	7.6
13A	2-1/4	4-7/16	2-11/16	20	1-1/16	7.6
14	2-3/8	5	2-11/16	22	1-1/8	9.9
14A	2-7/16	5	2-13/16	22	1-1/8	9.9
15	2-9/16	5-1/4	2-13/16	24	1-3/16	11.5
15A	2-5/8	5-1/4	2-15/16	24	1-3/16	11.5
16	2-3/4	6	2-7/8	27	1-1/4	14.5
16B	2-13/16	6	3	27	1-1/4	14.5
16A	2-15/16	6	3-1/8	27	1-1/4	14.5
17A	3	6-7/16	3-1/8	30	1-1/2	20.0
17	3-1/8	6-7/16	3-1/4	30	1-1/2	20.0
18A	3-3/8	7-5/16	3-1/4	34	1-9/16	28.4
18	3-1/2	7-5/16	3-5/16	34	1-9/16	28.4
19B	3-3/4	8-3/8	3-1/2	38	1-5/8	34.5
19	3-7/8	8-3/8	3-1/2	38	1-5/8	34.5
19C	4-1/8	8-3/8	3-5/8	38	1-5/8	34.5
19A	4-1/4	8-3/8	3-3/4	38	1-5/8	34.5
20B	4-1/2	10	4	42	2	52.0
20	4-5/8	10	4-1/4	42	2	52.0
20A	5	10	4-3/8	42	2	52.0

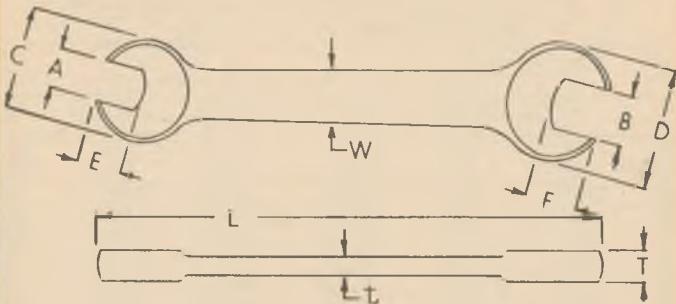
Ref.: Fed. Spec. GGG-W-636a, Type 5.

# OPEN END DOUBLE HEAD WRENCHES



## DOUBLE HEAD OPEN END WRENCHES - CARBON STEEL

**FINISHED IN  
BLACK ENAMEL,  
BRIGHT HEADS**



Part No.	A	B	C	D	E	F	L	T	Wt. Lbs.
721	5/16	3/8	5/8	13/16	11/32	13/32	4	1/4	.08
723	3/8	7/16	27/32	1-1/32	13/32	15/32	4-5/8	9/32	.13
725	7/16	1/2	1	1-1/4	15/32	9/16	5-1/2	5/16	.19
725A	7/16	9/16	1	1-1/4	15/32	5/8	5-1/2	5/16	.19
725B	1/2	9/16	1	1-1/4	9/16	5/8	5-1/2	5/16	.19
25	1/2	19/32	1	1-1/4	9/16	21/32	5-1/2	5/16	.19
727	9/16	5/8	1-3/16	1-3/8	5/8	11/16	6-1/2	11/32	.28
27	19/32	11/16	1-3/16	1-3/8	21/32	3/4	6-1/2	11/32	.28
27B	5/8	11/16	1-3/16	1-3/8	11/16	3/4	6-1/2	11/32	.28
729	5/8	3/4	1-3/8	1-9/16	11/16	13/16	7-1/2	3/8	.39
29B	11/16	3/4	1-3/8	1-9/16	3/4	13/16	7-1/2	3/8	.39
29C	11/16	13/16	1-3/8	1-9/16	3/4	7/8	7-1/2	3/8	.39
731	3/4	13/16	1-3/4	1-7/8	7/8	15/16	8-1/2	3/8	.55
731A	3/4	7/8	1-3/4	1-7/8	7/8	1	8-1/2	3/8	.55
731B	13/16	7/8	1-3/4	1-7/8	15/16	1	8-1/2	3/8	.55
33A	7/8	15/16	1-3/4	2	15/16	1	9-1/2	7/16	.84
733	7/8	1	1-3/4	2	15/16	1-1/16	9-1/2	7/16	.84
33C	15/16	1	1-3/4	2	1	1-1/16	9-1/2	7/16	.84
34	7/8	1-1/16	2	2-1/4	15/16	1-1/8	10-3/4	1/2	1.2
34A	15/16	1-1/16	2	2-1/4	1	1-1/8	10-3/4	1/2	1.2
735	1	1-1/8	2	2-1/4	1-1/16	1-3/16	10-3/4	1/2	1.2
36B	1-1/16	1-1/8	2	2-1/4	2-5/16	1-1/8	1-3/16	12	9/16 1.5
37	1-1/16	1-1/4	2	2-1/4	2-5/16	1-1/8	1-5/16	12	9/16 1.5
737	1-1/8	1-1/4	2	2-1/4	2-5/16	1-3/16	1-5/16	12	9/16 1.5
37A	1-1/8	1-5/16	2	2-1/4	2-5/16	1-3/16	1-3/8	12	9/16 1.5
39B	1-1/4	1-5/16	2	2-1/4	3	1-5/16	1-3/8	13-1/2	5/8 2.3
39	1-1/4	1-7/16	2	2-1/4	3	1-5/16	1-1/2	13-1/2	5/8 2.3
39C	1-3/8	1-7/16	2	2-1/4	3	1-7/16	1-1/2	13-1/2	5/8 2.3
41B	1-1/2	1-5/8	3	3-1/2	1-5/8	1-7/8	15-3/4	3/4	3.5
44A	1-11/16	1-7/8	4	4-1/2	2-1/4	2-1/2	19	13/16	7.5
47	2	2-3/16	4-1/8	4-5/8	2-3/8	2-3/4	21	1-1/32	9.5
49	2-3/16	2-3/8	4-3/8	5-3/8	2-1/2	2-3/4	22	1-1/8	12.5
49A	2-1/4	2-7/16	4-3/8	5-3/8	2-5/8	2-7/8	22	1-1/8	12.5



## THIN CHECK-NUT SINGLE & DOUBLE HEAD WRENCHES

FINISHED IN  
BLACK ENAMEL  
BRIGHT HEADS



### SINGLE HEAD THIN CHECK-NUT WRENCHES - CARBON STEEL

Part No.	A	B	C	L	T	Wt. Lbs.
601A	7/16	1-1/16	9/16	4	5/32	.07
601	1/2	1-1/16	9/16	4	5/32	.07
602A	9/16	1-1/4	5/8	4-1/2	3/16	.11
602	19/32	1-1/4	21/32	4-1/2	3/16	.11
603A	5/8	1-1/2	11/16	5-1/8	3/16	.15
603	11/16	1-1/2	3/4	5-1/8	3/16	.15
604A	3/4	1-11/16	13/16	5-7/8	7/32	.19
604	25/32	1-11/16	27/32	5-7/8	7/32	.19
605A	13/16	1-7/8	7/8	6-5/8	1/4	.30
605	7/8	1-7/8	29/32	6-5/8	1/4	.30
606B	3/32	2	1-1/32	7-1/2	9/32	.38
606	1	2	1-1/16	7-1/2	9/32	.38
607	1-1/16	2-5/16	1-1/8	8-1/2	5/16	.60
607A	1-1/8	2-5/16	1-3/16	8-1/2	5/16	.60
608	1-1/4	2-11/16	1-5/16	10	3/8	1.1
608A	1-5/16	2-11/16	1-3/8	10	3/8	1.1
609	1-7/16	3-1/4	1-1/2	11-5/8	7/16	1.7
609A	1-1/2	3-1/4	1-5/8	11-5/8	7/16	1.7
610	1-5/8	3-9/16	1-7/8	13-1/4	1/2	2.4
610A	1-11/16	3-9/16	2	13-1/4	1/2	2.4

### DOUBLE HEAD SET SCREW WRENCHES - CARBON STEEL

Part No.	A	B	C	D	E	F	L	T	Wt. Oz.
525	5/16	1/4	1-1/16	27/32	5/16	1/4	4-1/4	9/32	.13
527	3/8	5/16	1-5/16	1	3/8	5/16	5	11/32	.20
529	7/16	3/8	1-3/8	1-3/8	7/16	3/8	5-3/4	3/8	.35
531	1/2	7/16	1-5/8	1-3/8	1/2	7/16	6-5/8	7/16	.53
533	9/16	1/2	1-3/4	1-5/8	9/16	1/2	7-1/2	1/2	.70
537	3/4	5/8	2-1/4	1-7/8	3/4	5/8	9-3/4	5/8	1.5
541	1	7/8	2-3/8	2-5/8	1	7/8	12-1/2	3/4	2.4
543	1-1/8	1	2-5/8	2-7/8	1	1-1/8	14	13/16	3.6

Fed. Spec.: GGG-W-636a, Type 7.

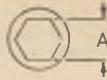
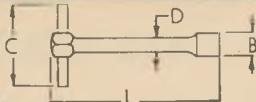
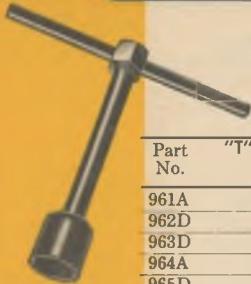
13

### DOUBLE HEAD THIN CHECK-NUT WRENCHES - CARBON STEEL

Part No.	A	B	C	D	E	F	L	T	Wt. Lbs.
623D	7/16	1/2	1	1-3/16	7/16	9/16	4-1/2	5/32	.12
624B	1/2	9/16	1	1-3/16	9/16	9/16	4-1/2	5/32	.12
626S	9/16	5/8	1-1/4	1-7/16	9/16	5/8	5-1/2	3/16	.20
627	19/32	11/16	1-1/4	1-7/16	19/32	11/16	5-1/2	3/16	.20
630B	3/4	13/16	1-5/8	1-13/16	3/4	13/16	7	7/32	.32
630E	3/4	7/8	1-5/8	1-13/16	3/4	7/8	7	7/32	.32
632C	7/8	15/16	1-15/16	2-1/4	7/8	15/16	8-1/2	1/4	.60
634A	7/8	1	1-15/16	2-1/4	7/8	1	8-1/2	1/4	.60
635D 1	1-1/8	2-5/16	2-5/8	1-1/8	1-1/4	10-1/2	9/32	1.0	
637	1-1/16	1-1/4	2-5/16	2-5/8	1-3/16	1-3/8	10-1/2	9/32	1.0
637A	1-1/8	1-5/16	2-5/16	2-5/8	1-1/4	1-3/8	10-1/2	9/32	1.0
639	1-1/4	1-7/16	2-3/4	3-3/16	1-5/16	1-1/2	12-1/2	3/8	1.9
640A	1-5/16	1-1/2	2-3/4	3-3/16	1-3/8	1-9/16	12-1/2	3/8	1.9



## "T" HANDLE SOCKET WRENCHES

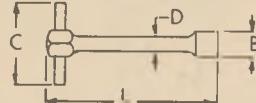
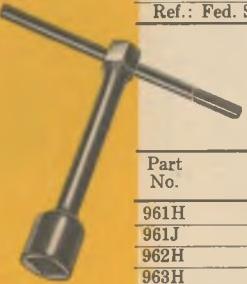


### SIX-POINT OPENINGS

**FINISHED IN  
BLACK ENAMEL**

Part No.	"T" HANDLE SOCKET WRENCHES — CARBON STEEL					Wt. Lbs.
	A	B	C	D	L	
961A	5/16	1/2	4-1/2	1/4	4-1/4	.12
962D	3/8	5/8	4-1/2	5/16	4-1/2	.22
963D	7/16	11/16	4-1/2	3/8	4-7/8	.26
964A	1/2	3/4	5-1/2	7/16	5-1/4	.34
965D	9/16	7/8	5-1/2	1/2	5-3/4	.53
966D	5/8	1	6-1/8	1/2	6-1/8	.70
967A	11/16	1-1/8	6-1/8	5/8	6-1/2	.94
967D	3/4	1-1/8	6-1/8	5/8	6-1/2	.94
968D	13/16	1-1/4	7	5/8	7	1.1
969A	7/8	1-3/8	7	5/8	7-3/8	1.3
970S	15/16	1-1/2	7-7/8	3/4	7-7/8	1.7
970D	1	1-1/2	7-7/8	3/4	7-7/8	1.7
971A	1-1/16	1-5/8	8-1/4	3/4	8-1/4	2.1
971D	1-1/8	1-5/8	8-1/4	3/4	8-1/4	2.1
973A	1-1/4	1-7/8	9	7/8	9-1/8	2.6
973B	1-5/16	1-7/8	9	7/8	9-1/8	2.6
975A	1-7/16	2-1/8	10	1	10	3.8
975D	1-1/2	2-1/8	10	1	10	3.8
976A	1-5/8	2-3/8	10-3/8	1-1/8	10-3/8	5.2
976B	1-11/16	2-3/8	10-3/8	1-1/8	10-3/8	5.2
977A	1-13/16	2-5/8	10-7/8	1-1/8	10-7/8	6.5
978A	2	2-7/8	11	1-1/4	11-3/8	7.0

Ref.: Fed. Spec. GGG-W-641b, Type 3, Class 2.



### FOUR-POINT OPENINGS

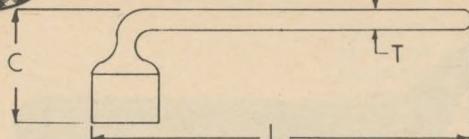
**FINISHED IN  
BLACK ENAMEL**

Part No.	"T" HANDLE SOCKET WRENCHES — CARBON STEEL					Wt. Lbs.
	A	B	SOCKET	C	D	L
961H	3/16	1/2	4-1/4	1/4	4-1/4	.12
961J	1/4	1/2	4-1/4	1/4	4-1/4	.12
962H	5/16	5/8	4-1/2	5/16	4-1/2	.22
963H	3/8	11/16	4-7/8	3/8	4-7/8	.26
965H	7/16	7/8	5-3/4	1/2	5-3/4	.53
966H	1/2	1	6-1/8	1/2	6-1/8	.70
967H	9/16	1-1/8	6-1/2	5/8	6-1/2	.94
968H	5/8	1-1/4	7	5/8	7	1.1
968P	11/16	1-1/4	7	5/8	7	1.1
969H	3/4	1-3/8	7-3/8	5/8	7-3/8	1.3
971H	7/8	1-5/8	8-1/4	3/4	8-1/4	2.1
973H	1	1-7/8	9-1/8	7/8	9-1/8	2.6
974H	1-1/8	2	9-1/2	1	9-1/2	3.4
976H	1-1/4	2-3/8	10-3/8	1-1/8	10-3/8	5.2
977X	1-7/16	2-5/8*	10-7/8	1-1/8	10-7/8	6.5
977P	1-1/2	2-5/8	10-7/8	1-1/8	10-7/8	6.5

Ref.: None.

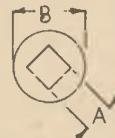


## OFFSET HANDLE SOCKET WRENCHES



Part No.	OFFSET HANDLE	SOCKET	WRENCHES - 6 PT. - CARBON STEEL	Wt. Lbs.	
	A	B	C	L	T
261A	5/16	1/2	1-5/32	3-3/8	9/32 .12
262D	3/8	5/8	1-1/2	3-7/8	3/8 .15
263D	7/16	23/32	1-7/16	4-3/4	3/8 .17
264A	1/2	3/4	1-5/8	5-1/8	3/8 .20
265D	9/16	7/8	1-7/8	5-7/8	7/16 .40
266D	5/8	1	2-1/16	6-1/2	1/2 .48
267A	11/16	1-5/32	2-3/16	6-49/64	9/16 .80
267D	3/4	1-5/32	2-3/16	6-49/64	9/16 .80
268D	13/16	1-1/4	2-7/16	7-1/2	5/8 .94
269A	7/8	1-3/8	2-7/8	8-3/8	5/8 1.2
270D	1	1-1/2	2-7/8	10-1/4	11/16 1.6
270S	15/16	1-1/2	2-7/8	10-1/4	11/16 1.6
271A	1-1/16	1-5/8	3-1/8	10	3/4 1.7
271D	1-1/8	1-5/8	3-1/8	10	3/4 1.7
273A	1-1/4	1-7/8	3-5/8	11-5/8	7/8 2.4
273B	1-5/16	1-7/8	3-5/8	11-5/8	7/8 2.4
275A	1-7/16	2-1/8	4-1/16	13-1/4	15/16 3.8
275D	1-1/2	2-1/8	4-1/16	13-1/4	15/16 3.8
276A	1-5/8	2-3/8	4-1/2	14-7/8	1 5.3
276B	1-11/16	2-3/8	4-1/2	14-7/8	1 5.3
277A	1-13/16	2-1/2	5	16-1/2	1-1/8 6.1
278A	2	2-7/8	5-1/2	18	1-1/8 8.5

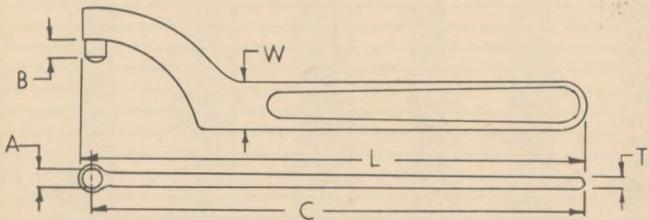
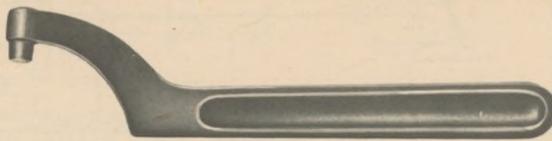
Ref.: Fed. Spec. GGG-W-641b, Type 3, Class 1.



Part No.	OFFSET HANDLE	SOCKET	WRENCHES - 4 PT. - CARBON STEEL	Wt. Lbs.	
	A	B	C	L	T
261J	1/4	1/2	1-5/32	3-3/8	9/32 .088
262H	5/16	5/8	1-1/2	3-7/8	3/8 .163
263H	3/8	23/32	1-7/16	4-3/4	3/8 .200
265H	7/16	7/8	1-7/8	5-7/8	7/16 .344
266H	1/2	1	2-1/16	6-1/2	1/2 .513
267H	9/16	1-5/32	2-3/16	6-49/64	9/16 .694
268H	5/8	1-1/4	2-7/16	7-1/2	5/8 .950
268P	11/16	1-1/4	2-7/16	7-1/2	5/8 .900
269H	3/4	1-3/8	2-7/8	8-3/8	5/8 1.100
271H	7/8	1-5/8	3-1/8	10	3/4 1.706
273H	1	1-7/8	3-5/8	11-5/8	7/8 2.600
274H	1-1/8	2	3-13/16	12-3/8	7/8 3.088
276H	1-1/4	2-3/8	4-1/2	14-7/8	1 4.900

13

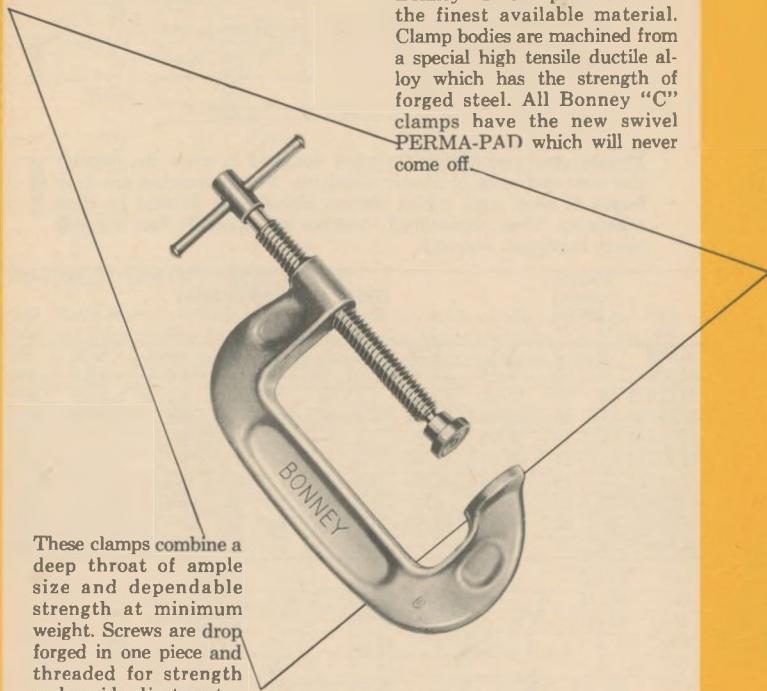
## BONNEY PIN SPANNERS



Bonney pin spanners are made to do an efficient job for the life of the tool. Pins are forged integral with wrench. Surfaces are smoothed and pins milled, entire wrench finished in black enamel.

Part No.	Size	A	B	C	L	T	W	Weight Lbs.
452	1	3/16	5/32	3-27/32	4	3/16	7/16	.08
453	1-1/4	13/64	3/16	4-11/32	4-1/2	7/32	15/32	.10
454	1-1/2	7/32	7/32	4-55/64	5	15/64	1/2	.14
455	1-3/4	15/64	1/4	5-5/16	5-1/2	1/4	17/32	.16
456	2	1/4	1/4	5-51/64	6	17/64	9/16	.21
457	2-1/4	17/64	9/32	6-9/32	6-1/2	9/32	19/32	.27
458	2-1/2	9/32	5/16	6-7/8	7-3/32	9/32	5/8	.31
459	2-3/4	19/64	5/16	7-1/4	7-31/64	5/16	21/32	.35
460	3	5/16	5/16	7-3/4	8	5/16	23/32	.48
461	3-1/4	21/64	11/32	8-15/64	8-1/2	11/32	3/4	.51
462	3-1/2	11/32	11/32	8-47/64	9	11/32	25/32	.56
463	3-3/4	23/64	3/8	9-7/32	9-1/2	3/8	7/8	.66
464	4	3/8	13/32	9-23/32	10	3/8	15/16	.76
466	5	7/16	7/16	11-43/64	12	13/32	1-1/8	1.3
468	6	1/2	9/16	13-41/64	14	1/2	1-5/16	1.9

Ref.: Fed. Spec. GGG-W-665.



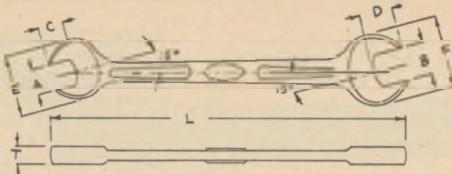
### **HEAVY DUTY CLAMPS**

Part No.	Maximum Opening	Minimum Opening	Recessed Opening	Width	Length	Weight Lbs.
CC104	4	0	2-1/4	4-11/16	10-7/8	3 000
CC106	6	2	2-3/8	5	12-13/16	5 562
CC108	8	4	2-5/8	5-1/4	15	6 500
CC110	10	6	2-7/8	5-19/32	17	7 750

### **REGULAR CLAMPS**

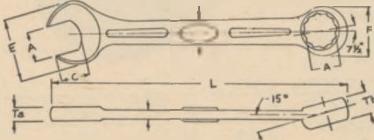
CC402	2	0	1-3/4	3-7/16	6-5/16	1 500
CC403	3	0	2	3-5/8	8-5/16	2 500
CC404	4	0	2-3/8	4-1/2	9-11/16	3 000
CC406	6	0	3	5-3/4	12	3 562
CC408	8	0	3-3/8	5-7/8	14-1/4	5 500
CC410	10	2	3-3/4	7	16-7/16	7 250
CC412	12	2	—	—	—	—

## METRIC TOOLS AND SETS



Bonney open end Metric wrenches designed to cover the popular size nuts and bolts of Metric standards. These wrenches are drop forged of alloy steel, nickel chrome plated, and finished to close tolerances. These streamlined wrenches are especially thin but still retain maximum strength.

Part No.	OPEN END WRENCHES								Wt. Lbs.
	A	B	C	D	E	F	L	T	
ME68	6	8	1/4	5/16	9/16	11/16	4-1/4	5/32	.025
ME79	7	9	5/16	13/32	11/16	13/16	4-3/4	3/16	.060
ME1012	10	12	13/32	15/32	13/16	15/16	5-1/4	7/32	.075
ME1113	11	13	29/64	33/64	15/16	1-1/16	5-3/4	15/64	.113
ME1416	14	16	17/32	5/8	1-1/16	1-3/16	6-1/4	1/4	.144
ME1517	15	17	39/64	11/16	1-3/16	1-5/16	7	17/64	.197
ME1819	18	19	45/64	47/64	1-5/16	1-7/16	7-3/4	9/32	.263
ME2022	20	22	13/16	7/8	1-9/16	1-11/16	9-1/4	11/32	.406
ME2123	21	23	27/32	15/16	1-11/16	1-13/16	10	23/64	.538
ME2425	24	25	31/32	1	1-13/16	1-15/16	10-3/4	3/8	.625

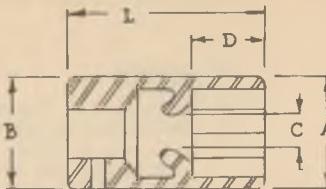
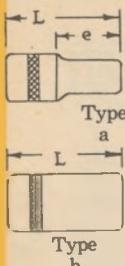


These combination wrenches in Metric standards are finished the same as the above open end wrenches, machined to close tolerances for best fit for specific jobs.

Part No.	COMBINATION WRENCHES								Wt. Lbs.
	A	C	E	F	L	Ta	Tb		
MEB7	7	9/32	19/32	7/16	3	5/32	3/16	.025	
MEB8	8	21/64	25/32	1/2	3-3/4	11/64	7/32	.044	
MEB9	9	21/64	25/32	1-2	3-3/4	11/64	7/32	.044	
MEB10	10	25/64	27/32	9/16	4-1/2	3/16	1/4	.063	
MEB11	11	29/64	29/32	21/32	5-3/16	7/32	5/16	.081	
MEB12	12	33/64	1-1/16	47/64	5-15/16	1/4	5/16	.128	
MEB13	13	33/64	1-1/16	47/64	5-15/16	1/4	5/16	.128	
MEB14	14	37/64	1-7/32	53/64	6-11/16	9/32	11/32	.181	
MEB15	15	37/64	1-7/32	53/64	6-11/16	9/32	11/32	.181	
MEB16	16	41/64	1-11/32	29/32	7-7/16	5/16	3/8	.264	
MEB17	17	45/64	1-15/32	1	8-5/16	11/32	13/32	.338	
MEB18	18	45/64	1-15/32	1	8-5/16	11/32	13/32	.338	
MEB19	19	25/32	1-9/16	1-5/64	9-3/16	3/8	7/16	.406	



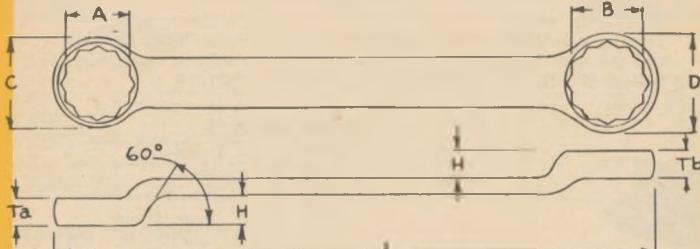
## METRIC TOOLS AND SETS



### 3/8-INCH DRIVE SOCKETS

These Bonney Metric standard sockets are made of alloy steel especially designed for perfect fit for most Metric nuts and bolts. See Page 3 of this section for information on sets containing these sockets.

Part No.	Opening MM.	Type	A	B	C Min.	D Min.	e	L	Wt. Lbs.
MT-7	7	a	13/32	21/32	5/32	9/32	13/32	29/32	.030
MT-8	8	a	29/64	21/32	11/64	9/32	13/32	29/32	.033
MT-9	9	a	1/2	21/32	11/64	9/32	13/32	29/32	.035
MT-10	10	a	9/16	21/32	9/32	9/32	13/32	29/32	.038
MT-11	11	a	39/64	21/32	9/32	9/32	13/32	29/32	.040
MT-12	12	b	21/32	21/32	5/16	5/16	.....	29/32	.041
MT-13	13	b	23/32	23/32	11/32	21/64	.....	29/32	.042
MT-14	14	b	49/64	49/64	3/8	21/64	.....	29/32	.044
MT-15	15	b	13/16	13/16	13/32	21/64	.....	15/16	.046
MT-16	16	b	55/64	55/64	15/32	11/32	.....	15/16	.050
MT-17	17	b	57/64	57/64	15/32	11/32	.....	1	.055
MT-18	18	b	59/64	59/64	15/32	11/32	.....	1	.068
MT-19	19	c	1	11/16	17/32	7/16	11/32	1-7/32	.075



15

Part No.	BOX END WRENCHES (SHORT)								Weight Lbs.
	A	B	C	D	H	L	Ta	Tb	
MBS911	9	11	9/16	21/32	1/2	4-3/4	1/4	9/32	.069
MBS1012	10	12	9/16	21/32	1/2	4-3/4	1/4	9/32	.069
MBS1314	13	14	47/64	53/64	1/2	5-3/8	21/64	23/64	.125
MBS1517	15	17	53/64	29/32	1/2	5-3/4	23/64	25/64	.150

The above listed box wrenches meet the rigid specifications of all Bonney wrenches, made of alloy steel with nickel chrome plate.



## METRIC TOOL SETS



### M215B

Width 13"  
Depth 3"  
Height 1-7/8"

### M215B

Popular size sockets with new design Bonney ratchet. This set is sold in metal box MB36. 8 PIECES, SHIPPING WEIGHT 2.719 LBS.

No.	Opening MM
MEB10	10
MEB11	11
MEB12	12
MEB13	13
MEB14	14
LR70	Plastic Roll

### M205R

Set consists of 7 popular size combination wrenches in Metric standard. Comes in plastic roll LR80. 7 PIECES, SHIPPING WEIGHT 2.500 LBS.

No.	Opening MM
MEB8	8
MEB9	9
MEB10	10
MEB11	11
MEB12	12
MEB13	13
MEB14	14
LR80	Plastic Roll

### M230B

Popular size sockets and wrenches, plus an extension hinge handle and the new design Bonney ratchet. The set is sold in metal box MB44. 17 PIECES, SHIPPING WEIGHT 6.875 LBS.

No.	Opening MM	Length
MT8	8	29/32
MT9	9	29/32
MT10	10	29/32
MT11	11	29/32
MT12	12	29/32
MT13	13	29/32
MT14	14	29/32
T701	6-1/2" Ratchet	
MB36		Metal Box



### M230B

Width 18-1/4"  
Depth 4-5/8"  
Height 1-5/8"

#### METRIC SOCKETS

Tool No.	Opening MM	Length
MT8	8	29/32
MT9	9	29/32
MT10	10	29/32
MT11	11	29/32
MT12	12	29/32
MT13	13	29/32
MT14	14	29/32

#### ATTACHMENTS

Tool No.	Description
T606	6" Extension
T701	6-1/2" Reversible Ratchet
T720	7-5/8" Hinge Handle

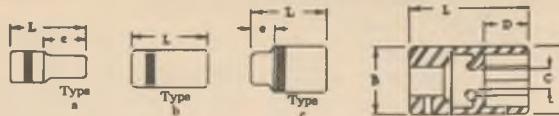
#### WRENCHES

Tool No.	Opening MM	Length
MEB8	8	3-3/4
MEB9	9	3-3/4
MEB10	10	4-1/2
MEB11	11	5-3/16
MEB12	12	5-15/16
MEB13	13	5-15/16
MEB14	14	6-11/16
MB44		Metal Box



## WHITWORTH TOOLS AND SETS

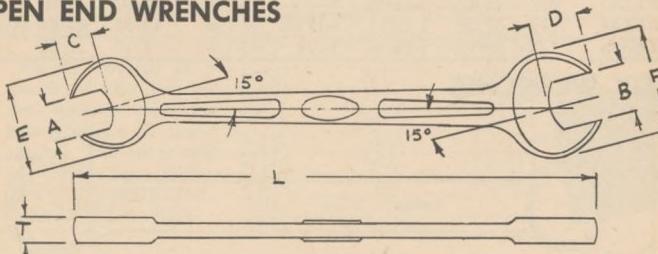
## 3/8 INCH SQUARE DRIVE SOCKETS



Part No.	Nom. Open- ing	Type	A	B	C Min.	D Min.	e	L	Wt. Lbs.
WT2	4BA	a	17/32	21/32	13/64	9/32	13/32	29/32	.041
WT4	1/8	a	17/32	21/32	13/64	9/32	13/32	29/32	.041
WT6	3/16	b	11/16	11/16	9/32	21/64	—	29/32	.053
WT8	1/4	b	25/32	25/32	11/32	21/64	—	29/32	.072
WT10	5/16	b	27/32	27/32	13/32	21/64	—	15/16	.084
WT12	3/8	c 1	—	11/16	17/32	7/16	11/32	1-7/32	.119
WT14	7/16	c 1-5/32	3/4	21/32	—	1/2	11/32	1-9/32	.175
WT16	1/2	c 1-1/4	27/32	23/32	—	1/2	11/32	1-9/32	.188

Bonney offers the above range of sockets to meet the ever increasing demand for Whitworth standards. See Page 6 of this section for various sets containing many of these sockets.

## OPEN END WRENCHES



Part No.	Bolt Size Whitworth Large		C	D	E	F	L	T	Wt. Lbs.
	A	B							
WE46	1/8	3/16	25/64	29/64	13/16	15/16	5-1/4	7/32	.075
WE810	1/4	5/16	17/32	39/64	1-1/16	1-3/16	6-1/4	1/4	.138
WE1214	3/8	7/16	23/32	27/32	1-7/16	1-9/16	8-1/2	5/16	.325
WE1618	1/2	9/16	15/16	1-1/32	1-13/16	2	11-1/8	13/32	.725
WE2024	5/8	3/4	1-5/32	1-23/64	2-1/4	2-5/8	13-5/8	1/2	1.450

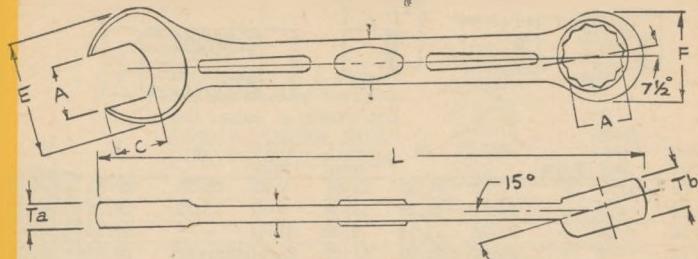
## TAPPET WRENCHES

Part No.	Whitworth Large Opening		C	D	E	F	L	T	Wt. Lbs.
	A	B							
WET68	3/16	1/4	1-3/16	1-1/4	1/2	19/32	9-1/2	5/32	.191
WET1012	5/16	3/8	1-7/16	1-1/2	11/16	3/4	9-1/2	3/16	.219

These 2 Tappet wrenches are of the popular size made of drop forged alloy steel with nickel chrome plate. As in all Bonney wrenches, close tolerances are maintained for perfect fit.

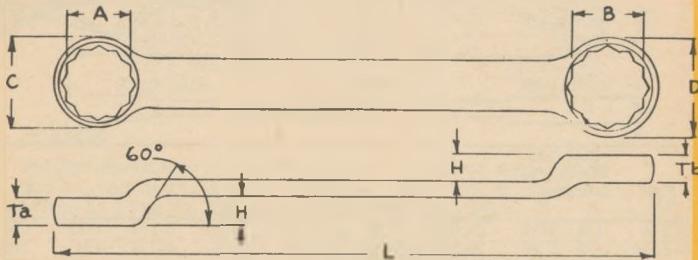


## COMBINATION WRENCHES - 12 POINT



Part No.	Whitworth Large Opening			F	L	Ta	Tb	Wt. Lb.
	A	C	E					
WEB4	1/8	25/64	27/32	9/16	4-1/2	3/16	1/4	.063
WEB6	3/16	29/64	29/32	21/32	5-3/16	7/32	5/16	.081
WEB8	1/4	33/64	1-1/16	47/64	5-15/16	1/4	5/16	.128
WEB10	5/16	37/64	1-7/32	53/64	6-11/16	9/32	11/32	.181
WEB12	3/8	45/64	1-15/32	1	8-5/16	11/32	13/32	.338
WEB14	7/16	27/32	1-11/16	1-11/64	10-1/4	13/32	31/64	.575
WEB16	1/2	29/32	1-13/16	1-1/4	11-1/4	7/16	17/32	.675

## BOX WRENCHES



Part No.	Bolt Size Whitworth Large						Ta	Tb	Wt. Lb.
	A	B	C	D	H	L			
WBS46	1/8	3/16	9/16	21/32	1/2	4-3/4	1/4	9/32	.069
WBS810	1/4	5/16	3/4	13/16	1/2	5-3/4	23/64	25/64	.125

The above listed combination and box wrenches are of the usual Bonney quality made to meet strict specifications and made of the finest material available, drop forged alloy steel with nickel chrome plating. With these wrenches many adjustments can be made on the foreign cars which are growing in popularity. The "modern thinking" mechanic will want to stock up on a complete set of these Whitworth tools.



## WHITWORTH TOOLS AND SETS

### W100R

Set consists of 5 popular size combination wrenches and comes in plastic roll LR70. 5 PIECES, SHIPPING WEIGHT .884 LBS.

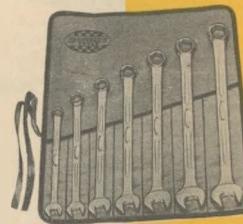
Tool No.	Whitworth Standard Nuts; Size Bolts
WEB4	1/8
WEB6	3/16
WEB8	1/4
WEB10	5/16
WEB12	3/8
LR70	Plastic Roll



### W105R

This set consists of 7 popular size combination wrenches in Whitworth standard. Comes in plastic roll LR80. 7 PIECES, SHIPPING WT. 2.500 LBS.

Tool No.	Whitworth Standard Nuts; Bolt Sizes
WEB4	1/8
WEB6	3/16
WEB8	1/4
WEB10	5/16
WEB12	3/8
WEB14	7/16
WEB16	1/2
LR80	Plastic Roll



### W115B

This set consists of 8 pieces of the popular size sockets with the new design Bonney ratchet. This set is sold in metal box MB36. 8 PIECES, SHIPPING WEIGHT 2.719 LBS.

No.	Whitworth Standard Nuts; Size Bolts	Length
WT4	1/8	29/32
WT6	3/16	29/32
WT8	1/4	29/32
WT10	5/16	15/16
WT12	3/8	1-3/16
WT14	7/16	1-9/32
WT16	1/2	1-9/32
T701	6-1/2" Ratchet	
MB36	Metal Box	



**W120B** - Popular size sockets and the Bonney hinge handle T720. This set is sold in metal box MB36. 8 PIECES, SHIPPING WEIGHT 2.625 LBS.



### W120B

Width 13"  
Depth 3"  
Height 1-7/8"

**W130B** - Popular size sockets and wrenches, plus an extension hinge handle and the new design Bonney ratchet. The set is sold in metal box MB44. 17 PIECES, SHIPPING WEIGHT 6.875 LBS.



### SOCKETS

Tool No.	Bolt Size	Length
WT4	1/8	29/32
WT6	3/16	29/32
WT8	1/4	29/32
WT10	5/16	15/16
WT12	3/8	1-3/16
WT14	7/16	1-9/32
WT16	1/2	1-9/32

ATTACHMENTS	
AT4	6" Wobble Drive
T701	6-1/2" Reversible Ratchet
T720	7-5/8" Hinge Handle

### WRENCHES

Tool No.	Bolt Size	Length
WEB4	1/8	4-1/2
WEB6	3/16	5-3/16
WEB8	1/4	5-15/16
WEB10	5/16	6-11/16
WEB12	3/8	8-5/16
WEB14	7/16	10-1/4
WEB16	1/2	11-1/4

### W115B

Width 13"  
Depth 3"  
Height 1-7/8"

15

## TOOL SETS 1/4 INCH SQUARE DRIVE



**VM5B** — The tools contained in this set are especially handy for working with electrical, radio, and ignition equipment. Sold in metal box MB12. 23 PIECES, SHIPPING WEIGHT 2.095 LBS.

### MINIATURE OPEN-END WRENCHES

Part No.	Description
H10	3/16" & 7/32" O E Min. Wrench
H12	1/4" & 9/32" O E Min. Wrench
H14	5/16" & 11/32" O E Min. Wrench
H16	3/8" & 7/16" O E Min. Wrench
H18	13/32" & 15/32" O E Min. Wrench
001-2	Screw Driver

### VM5B

Width 6-1/2"	Part No.	Description	Part No.	Description
Width 6-1/2"	V6	3/16" 12 Point Socket	VS8	1/4" 8 Point Socket
Depth 4-13/16"	V7	7/32" 12 Point Socket	VS10	5/16" 8 Point Socket
Height 1-3/16"	V8	1/4" 12 Point Socket	VS12	3/8" 8 Point Socket
	V9	9/32" 12 Point Socket	V730	Sliding "T" Handle, 4-1/2" Long
	V10	5/16" 12 Point Socket	V606	Extension, 6" Long
	V11	11/32" 12 Point Socket	V602	Extension, 2" Long
	V12	3/8" 12 Point Socket	V780	Screwdriver Handle, 6" Long
	V14	7/16" 12 Point Socket	V720	Hinge Handle, 5-3/4" Long
			V775	Cross Handle, 3-1/2" Long



**V50B** — The tools in this set are the popular 1/4" drive sockets and attachments for small repair jobs. Sold in metal box MB12. 14 PIECES, SHIPPING WEIGHT 1.438 LBS.

Part No.	Description	Part No.	Description
V6	3/16" 12 Point Socket	V14	7/16" 12 Point Socket
V7	7/32" 12 Point Socket	VS8	1/4" 8 Point Socket
V8	1/4" 12 Point Socket	VS10	5/16" 8 Point Socket
V9	9/32" 12 Point Socket	VS12	3/8" 8 Point Socket
V10	5/16" 12 Point Socket	V606	Extension, 6" Long
V11	11/32" 12 Point Socket	V602	Extension, 2" Long
V12	3/8" 12 Point Socket	V730	Sliding "T" Handle, 4-1/2" Long

### V50B

Width 6-1/2"  
Depth 4-13/16"  
Height 1-3/16"



### V51B

Width 6-1/2"  
Depth 4-13/16"  
Height 1-3/16"

**V51B** — This set consists of tools which are especially useful in adjusting distributors, carburetor, and generators, packed in metal box MB12. 17 PIECES, SHIPPING WEIGHT 1.813 LBS.

Part No.	Description	Part No.	Description
V6	3/16" 12 Point Socket	VS10	5/16" 8 Point Socket
V7	7/32" 12 Point Socket	VS12	3/8" 8 Point Socket
V8	1/4" 12 Point Socket	V730	Sliding "T" Handle, 4-1/2" Long
V9	9/32" 12 Point Socket	V606	Extension, 6" Long
V10	5/16" 12 Point Socket	V602	Extension, 2" Long
V11	11/32" 12 Point Socket	V780	Screwdriver Handle, 6" Long
V12	3/8" 12 Point Socket	V720	Hinge Handle, 5-3/4" Long
V14	7/16" 12 Point Socket	V775	Cross Handle, 3-1/2" Long
VS8	1/4" 8 Point Socket		



## TOOL SETS 1/4 INCH SQUARE DRIVE

V53B — The tools contained in this set are also handy for working with electrical and ignition equipment. Packed in metal Box MB12. 12 PIECES, SHIPPING WEIGHT 1.345 LBS.

Part No.	Description	Part No.	Description
V6	3/16" 12 Point Socket	V12	3/8" 12 Point Socket
V7	7/32" 12 Point Socket	V14	7/16" 12 Point Socket
V8	1/4" 12 Point Socket	VS8	1/4" 8 Point Socket
V9	9/32" 12 Point Socket	VS10	5/16" 8 Point Socket
V10	5/16" 12 Point Socket	VS12	3/8" 8 Point Socket
V11	11/32" 12 Point Socket	V701	Reversible Ratchet, 4-1/2" Long

V54B — The electrical mechanic will use this set to advantage. The deep sockets will be of great value in reaching those hard to get nuts and bolts. Packed in metal box MB12. 12 PIECES, SHIPPING WEIGHT 1.657 LBS.

Part No.	Description	Part No.	Description
VL6	3/16" 6 Point Deep Socket	VL12	3/8" 6 Point Deep Socket
VL7	7/32" 6 Point Deep Socket	VL14	7/16" 6 Point Deep Socket
VL8	1/4" 6 Point Deep Socket	VL16	1/2" 6 Point Deep Socket
VL9	9/32" 6 Point Deep Socket	V606	Extension, 6" Long
VL10	5/16" 6 Point Deep Socket	V602	Extension, 2" Long
VL11	11/32" 6 Point Deep Socket	V782	Spinner Hinge Handle



## TOOL SETS 3/8 INCH SQUARE DRIVE

TB3R — The tools in this set are especially handy for body and door frame work where extra force is required in breaking loose or setting screws, packed in plastic roll LR5. 9 PIECES, SHIPPING WEIGHT .375 LBS.

Part No.	Description
TP1 Bit	Bit for TP1—Fits #4 and Smaller
TP2 Bit	Bit for TP2—Fits #5 to #9
TP3 Bit	Bit for TP3—Fits #10 to #16
TP4 Bit	Bit for TP4—Fits #18 and Larger
TCL3 Bit	Bit for TCL3—Fits Sizes #4, #8, #10
TCL5 Bit	Bit for TCL5—Fits Sizes #12, #14, #1/4
TCL7 Bit	Bit for TCL7—Fits Sizes #5/16, #3/8
TPC	Screwdriver Bit Socket
AW2-1/2	Hexagonal Key

TB5B — The tools in this set are also used in body and door frame work as in set TB3R. Packed in metal box MB8. 8 PIECES, SHIPPING WEIGHT .938 LBS.

Part No.	Description
TP1	No. 1 Phillips Socket & Bit—Fits Phillips Screws #4 and Smaller
TP2	No. 2 Phillips Socket & Bit—Fits Phillips Screws #5 to #9
TP3	No. 3 Phillips Socket & Bit—Fits Phillips Screws #10 to 16
TP4	No. 4 Phillips Socket & Bit—Fits Phillips Screws #18 and Larger
TCL3	Clutch Head Socket & Bit—Fits Clutch Head Screw Sizes #4, #8, #10
TCL5	Clutch Head Socket & Bit—Fits Clutch Head Screw Sizes #12, #14, #1/4
TCL7	Clutch Head Socket & Bit—Fits Clutch Head Screw Sizes #5/16, #3/8
AW2-1/2	Hexagonal Key

2



**V53B**

Width 6-1/2"  
Depth 4-13/16"  
Height 1-3/16"



**TB3R**

Width 6-1/2"  
Depth 4-13/16"  
Height 1-3/16"



**TB5B**

Width 4-7/8"  
Depth 2-3/8"  
Height 1"



**TB5B**

Width 4-7/8"  
Depth 2-3/8"  
Height 1"

• TOOL SETS 3/8 INCH SQUARE DRIVE



**TD1B**

Width 13"  
Depth 3"  
Height 1-7/8"



**TD2B**

Width 13"  
Depth 3"  
Height 1-7/8"



**TD4B**

Width 21-7/8"  
Depth 9-1/4"  
Height 5"

TD1B — This set consists of the popular 3/8" square drive sockets and the new 3/8" square drive Bonney ratchet. Packed in metal box MB36. 7 PIECES, SHIPPING WEIGHT 2.157 LBS.

Part No.	Description	Part No.	Description
T10	5/16" 12 Point Socket	T16	1/2" 12 Point Socket
T12	3/8" 12 Point Socket	T18	9/16" 12 Point Socket
T14	7/16" 12 Point Socker	T20	5/8" 12 Point Socket
		T701	Reversible Ratchet, 7"

TD2B — The tools in this box are the same as in TD1B with the exception of the sockets being 6 point instead of 12 point. Packed in metal box MB36. 7 PIECES, SHIPPING WEIGHT 2.125 LBS.

Part No.	Description	Part No.	Description
TH10	5/16" 6 Point Socket	TH16	1/2" 6 Point Socket
TH12	3/8" 6 Point Socket	TH18	9/16" 6 Point Socket
TH14	7/16" 6 Point Socket	TH20	5/8" 6 Point Socket
		T701	Reversible Ratchet, 7"

TD4B — This set consists of the small series socket and attachments in a 3/8" square drive including flexible sockets and the new design Bonney ratchet. Packed in metal box MB60. 39 PIECES, SHIPPING WEIGHT 20.063 LBS.

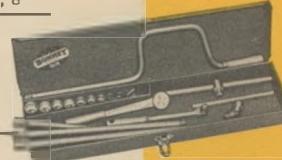
Part No.	Description	Part No.	Description
T760	Universal Joint	TS16	1/2" 8 Point Socket
T606	Extension, 6"	TS18	9/16" 8 Point Socket
T612	Extension, 12"	TS20	5/8" 8 Point Socket
T617	Extension, 17"	TU14	7/16" Flex. 12 Point Socket
T742	Speeder, 17-1/2"	TU16	1/2" Flex. 12 Point Socket
T10	5/16" 12 Point Socket	TU18	9/16" Flex. 12 Point Socket
T12	3/8" 12 Point Socket	TU20	5/8" Flex. 12 Point Socket
T14	7/16" 12 Point Socket	LT14	7/16" Extra Deep Socket
T16	1/2" 12 Point Socket	LT16	1/2" Extra Deep Socket
T18	9/16" 12 Point Socket	LT18	9/16" Extra Deep Socket
T19	19/32" 12 Point Socket	LT20	5/8" Extra Deep Socket
T20	5/8" 12 Point Socket	LT22	11/16" Extra Deep Socket
T22	11/16" 12 Point Socket	LT24	3/4" Extra Deep Socket
T24	3/4" 12 Point Socket	LT26	13/16" Extra Deep Socket
T25	25/32" 12 Point Socket	LT28	7/8" Extra Deep Socket
T26	13/16" 12 Point Socket	T27	Drag Link Socket
T128	7/8" 12 Point Socket	T720	Hinge Handle, 8-1/2"
TS14	7/16" 8 Point Socket	T603	Extension, 3"
		T775	Cross Handle, 6"
		T701	Reversible Ratchet, 7"
		T730	Sliding "T" Handle, 8"

**TD11B** — Most of the popular size 3/8" square drive 12 point sockets are featured in this set in addition to the necessary adjustments and ratchet. Packed in metal box MB36. 12 PIECES, SHIPPING WEIGHT 3.907 LBS.



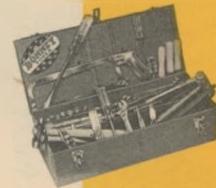
Part No.	Description	Part No.	Description
T10	5/16" 12 Point Socket	T20	5/8" 12 Point Socket
T12	3/8" 12 Point Socket	T760	Universal Joint
T14	7/16" 12 Point Socket	T606	Extension, 6"
T16	1/2" 12 Point Socket	T612	Extension, 12"
T18	9/16" 12 Point Socket	T617	Extension, 17"
T19	19/32" 12 Point Socket	T701	Reversible Ratchet, 7"
		T730	Sliding "T" Handle, 8"

**TD14B** — A very popular set in 3/8" square drive consisting of most of the popular 12 point sockets with the necessary attachments and handles. Packed in metal box MB44. 19 PIECES, SHIPPING WEIGHT, 8.000 LBS.



Part No.	Description	Part No.	Description
T10	5/16" 12 Point Socket	T606	Extension, 6"
T12	3/8" 12 Point Socket	T612	Extension, 12"
T14	7/16" 12 Point Socket	T617	Extension, 17"
T16	1/2" 12 Point Socket	T742	Speeder, 17-1/2"
T18	9/16" 12 Point Socket	T27	Drag Link Socket
T19	19/32" 12 Point Socket	T720	Hinge Handle, 8-1/2"
T20	5/8" 12 Point Socket	T775	Cross Handle, 6"
T22	11/16" 12 Point Socket	T701	Reversible Ratchet, 7"
T24	3/4" 12 Point Socket	T730	Sliding "T" Handle, 8"
T760	Universal Joint		

**TM10B** — This set contains the necessary sockets and attachments in 3/8" square drive plus such popular tools as open end wrenches, pliers, screwdrivers, hammers, punches, and chisels. Packed in metal box MB60. 44 PIECES, SHIPPING WEIGHT, 25.188 LBS.



Part No.	Description	Part No.	Description
TH10	5/16" 6 Point Socket	B17	6" Diagonal Cutting Plier
TH12	3/8" 6 Point Socket	B25	6" Long Nose Plier
TH14	7/16" 6 Point Socket	04	Screwdriver, 1/4"x4" Bl.
TH16	1/2" 6 Point Socket	06	Screwdriver, 5/16"x6" Bl.
TH18	9/16" 6 Point Socket	S01	Bl. Adj. Screwdriver 1 1/4"x1-3/4" Blade
TH20	5/8" 6 Point Socket	S08	Bl. Adj. Screwdriver 1/2" x 8" Blade
TH22	11/16" 6 Point Socket	006	Screwdriver, 3/16"x6" Bl.
TH24	3/4" 6 Point Socket	PH2	2 oz. Ball Pein Hammer
T606	Extension, 6"	PH6	3/4 lb. Ball Pein Hammer
T701	Reversible Ratchet, 7"	PH15	8 oz. Soft Face Hammer
T730	Sliding "T" Handle, 8"	C3	5/8" Cut Blade Chisel
	12 Point Comb. Wrench	C5	7/8" Cut Blade Chisel
1159	5/16"	C26	1/8" Cut Taper Punch
1160	3/8"	C28	1/8" Cut Pin Punch
1161	7/16"	C29	3/16" Cut Pin Punch
1162	1/2"	C34	5" Long Center Punch
1163	9/16"	2628	Hack Saw
1164	5/8"	6"	Round Bastard File
1165	11/16"	8"	Extra Slim Taper File
1166	3/4"	10"	Half-Round Bastard File
BW8	8" Adj. End Wrench	#2	Small File Handle
B29	7" Thin Nose, Slip Joint Side Cutting Plier	#3(2)	Medium File Handles

**TM10B**  
Width 21-7/8"  
Depth 9-1/4"  
Height 5"

## TOOL SETS 3/8 INCH SQUARE DRIVE



**TWB**

Width 4-7/8"  
Depth 2-3/8"  
Height 1"

**TWB** — The tools in this set are made for all popular size set screws or cap screws. Packed in metal box MB8. 8 PIECES, SHIPPING WEIGHT .845 LBS.

Part No.	Description	Part No.	Description
TWB	Set, 3/8" Drive Socket Head Wrench	TW7	7/32" Hex Bit
TW4	1/8" Hex Bit	TW8	1/4" Hex Bit
TW5	5/32" Hex Bit	TW10	5/16" Hex Bit
TW6	3/16" Hex Bit	TW12	3/8" Hex Bit
		AW2-1/2	Hexagonal Key

## TOOL SETS 1/2 INCH SQUARE DRIVE



**AA8B**

Width 18-3/8"  
Depth 2-3/4"  
Height 1-7/8"

**AA8B** — This is a practical, basic socket set for every mechanic. Consisting of a range of 12 point sockets from 7/16" opening through 1" opening. Packed in metal box MB40. 14 PIECES, SHIPPING WEIGHT 6.500 LBS.

Part No.	Description	Part No.	Description
A14	7/16" 12 Point Socket	A25	25/32" 12 Point Socket
A16	1/2" 12 Point Socket	A26	13/16" 12 Point Socket
A18	9/16" 12 Point Socket	A28	7/8" 12 Point Socket
A19	19/32" 12 Point Socket	A30	15/16" 12 Point Socket
A20	5/8" 12 Point Socket	A32	1" 12 Point Socket
A22	11/16" 12 Point Socket	A722	Hinge Handle, 15" Long
A24	3/4" 12 Point Socket	A775	Cross Handle, 8" Long



**AA16B**

Width 18-3/4"  
Depth 2-3/4"  
Height 1-7/8"

**AA16B** — This set consists of a wide range of 12 point sockets in the 1/2" square drive plus a reversible ratchet. Packed in metal box MB40. 13 PIECES, SHIPPING WEIGHT 5.938 LBS.

Part No.	Description	Part No.	Description
A14	7/16" 12 Point Socket	A24	3/4" 12 Point Socket
A16	1/2" 12 Point Socket	A25	25/32" 12 Point Socket
A18	9/16" 12 Point Socket	A26	13/16" 12 Point Socket
A19	19/32" 12 Point Socket	A28	7/8" 12 Point Socket
A20	5/8" 12 Point Socket	A30	15/16" 12 Point Socket
A22	11/16" 12 Point Socket	A32	1" 12 Point Socket
		A701	Reversible Ratchet, 10"



**AA18B**  
Width 18-3/8"  
Depth 2-3/4"  
Height 1-7/8"

**AA18B** — This set consists of 12 point sockets from 7/16" opening through 1" opening plus reversible ratchet 10" long. Packed in metal box MB40. 11 PIECES, SHIPPING WEIGHT 5.750 LBS.

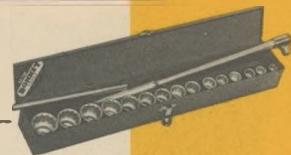
Part No.	Description	Part No.	Description
AH14	7/16" 6 Point Socket	AH24	3/4" 6 Point Socket
AH16	1/2" 6 Point Socket	AH26	13/16" 6 Point Socket
AH18	9/16" 6 Point Socket	AH28	7/8" 6 Point Socket
AH20	5/8" 6 Point Socket	AH30	15/16" 6 Point Socket
AH22	11/16" 6 Point Socket	AH32	1" 6 Point Socket
		A701	Reversible Ratchet, 10"



## TOOL SETS 1/2 INCH SQUARE DRIVE

**AA20B** — This set consists of a complete range of 1/2" square drive 12 point sockets and hinge handles. Packed in metal box MB40. 17 PIECES, SHIPPING WEIGHT 7.750 LBS.

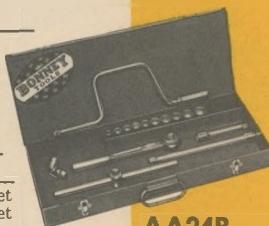
Part No.	Description
A14	7/16" 12 Point Socket
A16	1/2" 12 Point Socket
A18	9/16" 12 Point Socket
A19	19/32" 12 Point Socket
A20	5/8" 12 Point Socket
A22	11/16" 12 Point Socket
A24	3/4" 12 Point Socket
A25	25/32" 12 Point Socket
A26	13/32" 12 Point Socket

**AA20B**

Width 18-3/8"  
Depth 2-3/4"  
Height 1-7/8"

**AA24B** — Here is a popular set consisting of the necessary 12 point sockets in addition to Universal joint, extensions, speeder handle, and reversible ratchet. Packed in metal box MB56. 16 PIECES, SHIPPING WEIGHT 12.438 LBS.

Part No.	Description
A14	7/16" 12 Point Socket
A16	1/2" 12 Point Socket
A18	9/16" 12 Point Socket
A19	19/32" 12 Point Socket
A20	5/8" 12 Point Socket
A22	11/16" 12 Point Socket
A24	3/4" 12 Point Socket
A25	25/32" 12 Point Socket

**AA24B**

Width 20-7/16"  
Depth 8-3/8"  
Height 2-1/4"

**AA28B** — This set is much the same as AA24B with the addition of an extra speeder handle. Packed in metal box MB56. 21 PIECES, SHIPPING WEIGHT 16.188 LBS.

Part No.	Description
A14	7/16" 12 Point Socket
A16	1/2" 12 Point Socket
A18	9/16" 12 Point Socket
A19	19/32" 12 Point Socket
A20	5/8" 12 Point Socket
A22	11/16" 12 Point Socket
A24	3/4" 12 Point Socket
A25	25/32" 12 Point Socket
A26	13/16" 12 Point Socket
A28	7/8" 12 Point Socket
A30	15/16" 12 Point Socket
A32	1" 12 Point Socket

Part No.	Description
A28	7/8" 12 Point Socket
A30	15/16" 12 Point Socket
A32	1" 12 Point Socket
A34	1-1/16" 12 Point Socket
A36	1-1/8" 12 Point Socket
A40	1-1/4" 12 Point Socket
A722	Hinge Handle, 15"
A775	Cross Handle, 8"

**AA28B**

Width 20-7/16"  
Depth 8-3/8"  
Height 2-1/4"

**LD2B** — This set consists of 6 sockets designed to remove and replace spark plugs in most model cars and trucks. Packed in metal box MB20. 7 PIECES, SHIPPING WEIGHT 3.782 LBS.

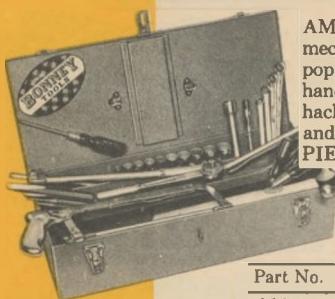
Part No.	Description
LD20	5/8" Ex. Deep Socket
LD22	11/16" Ex. Deep Socket
LD26T	13/16" Ex. Deep Socket
LD28T	7/8" Ex. Deep Socket

Part No.	Description
LD30	15/16" Ex. Deep Socket
LD32	1" Ex. Deep Socket
A775	Cross Handle, 8"

**LD2B**

Width 8-1/2"  
Depth 4"  
Height 1-1/2"

## TOOL SETS 1/2 INCH SQUARE DRIVE



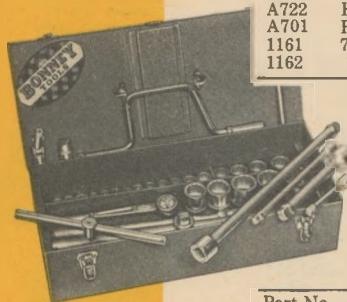
### **AM16B**

**Width 18-3/8"**

**Depth 2-3/4"**

**Height 1-7/8"**

**AM16B** — Here is a set especially designed for the mechanic who is just starting out. Consists of the popular size 12 point sockets with the necessary handles and attachments in addition to screwdrivers, hack saw, chisels, combination wrenches, hammer, and pump plier. Packed in metal box MB60. 13 PIECES, SHIPPING WEIGHT 5.938 LBS.



### **AM20B**

**1/2 - 3/4 INCH  
SQUARE DRIVE**

**Width 21-7/8"**

**Depth 9-1/4"**

**Height 5"**

**AM20B** — Tools in this set were selected for heavy work on passenger cars, trucks, buses, tractors, farm and industrial machinery. Packed in metal box MB68. 34 PIECES, SHIPPING WEIGHT 35.313 LBS.

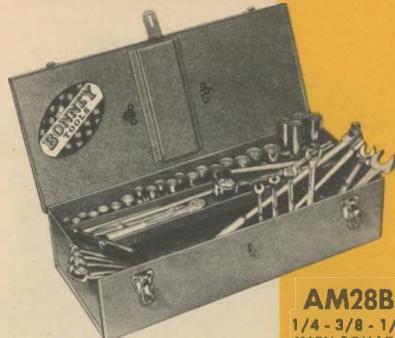
Part No.	Description	Part No.	Description
A14	7/16" 12 Point Socket	1163	9/16" Comb. Wrench
A16	1/2" 12 Point Socket	1164	5/8" Comb. Wrench
A18	9/16" 12 Point Socket	B45	Rib Joint Plier (Pump)
A19	19/32" 12 Point Socket	C2	Blade Chisel, 7/16" Cut
A20	5/8" 12 Point Socket	C4	Blade Chisel, 3/4" Cut
A22	11/16" 12 Point Socket	C34	Center Punch
A24	3/4" 12 Point Socket	C29	Pin Punch, 3/16" Point
A25	25/32" 12 Point Socket	E02	2-1/4" Blade Neon Screwdriver
A26	13/16" 12 Point Socket		Wood Handle Screwdriver
A28	7/8" 12 Point Socket	W03	3" Blade
A605	Extension, 5"	W06	6" Blade
A610	Extension, 10"	W010	10" Blade
A775	Cross Handle, 8"	WP2	# 2 Tip 4" Phil. Sc. Dr.
A722	Hinge Handle, 15"	PH7	16 oz. Ball Pein Hammer
A701	Reversible Ratchet, 10"	2628	Adj. Hack Saw Frame w. Blade
1161	7/16" Comb. Wrench		
1162	1/2" Comb. Wrench		

Part No.	Description	Part No.	Description
A14	7/16" 12 Point Socket	A610	Extension, 10"
A16	1/2" 12 Point Socket	A775	Cross Handle, 8"
A18	9/16" 12 Point Socket	A760	Universal Joint
A19	19/32" 12 Point Socket	A722	Hinge Handle, 15"
A20	5/8" 12 Point Socket	A701	Reversible Ratchet, 10"
A22	11/16" 12 Point Socket	R30	15/16" 12 Point Socket
A24	3/4" 12 Point Socket	R32	1" 12 Point Socket
A25	25/32" 12 Point Socket	R34	1-1/16" 12 Point Socket
A26	13/16" 12 Point Socket	R36	1-1/8" 12 Point Socket
A28	7/8" 12 Point Socket	R40	1-1/4" 12 Point Socket
AS14	7/16" 8 Point Socket	R42	1-5/16" 12 Point Socket
AS16	1/2" 8 Point Socket	R46	1-7/16" 12 Point Socket
AS18	9/16" 8 Point Socket	R48	1-1/2" 12 Point Socket
A785	Drag Link Socket	R52	1-5/8" 12 Point Socket
A740	Speeder, 14"	R609	Extension, 8-1/2"
A730	Sliding "T" Handle, 11"	R617	Extension, 17"
A605	Extension, 5"	R730	Sliding "T" Handle, 20"



## TOOL SETS 1/2 INCH SQUARE DRIVE

**AM28B** — This set contains most of the popular 1/4", 3/8", and 1/2" square drive sockets and attachments in addition to open end wrenches and 15 degree angle box wrenches. Packed in metal box MB60. 50 PIECES, SHIPPING WEIGHT 16.188 LBS.



### AM28B

1/4 - 3/8 - 1/2  
INCH SQUARE  
DRIVE

Width 21-7/8"  
Depth 9-1/4"  
Height 5"

Part No.	Description	Part No.	Description
V10	5/16" 12 Point Socket	A30	15/16" 12 Point Socket
V11	11/32" 12 Point Socket	A32	1" 12 Point Socket
V12	3/8" 12 Point Socket	LD20	5/8" Extra Deep Socket, 3-1/4" Long
V14	7/16" 12 Point Socket	LD22	11/16" Extra Deep Socket, 3-1/4" Long
V730	Sliding "T" Handle, 4-1/2"	LD26T	13/16" Extra Deep Socket, 3-1/4" Long
V606	Extension, 6"	LD28T	7/8" Extra Deep Socket, 3-1/4" Long
T12	3/8" 12 Point Socket	A605	Extension, 5"
T14	7/16" 12 Point Socket	A610	Extension, 10"
T16	1/2" 12 Point Socket	A775	Cross Handle, 8"
T18	9/16" 12 Point Socket	A722	Hinge Handle, 15"
T20	5/8" 12 Point Socket	A701	Reversible Ratchet, 10"
T22	11/16" 12 Point Socket	E1214	Open End St. Wrench
T24	3/4" 12 Point Socket	E1618	3/8" & 7/16"
T606	Extension, 6"	E2022	1/2" & 9/16"
T612	Extension, 12"	E1925	5/8" & 11/16"
T720	Hinge Handle, 8"	E2426	19/32" & 25/32"
T775	Cross Handle, 6"	E2830	3/4" & 13/16"
T701	Reversible Ratchet, 7"		7/8" & 15/16"
A14	7/16" 12 Point Socket		15° Angle Box Wrench
A16	1/2" 12 Point Socket	2890	3/8" & 7/16"
A18	9/16" 12 Point Socket	2891	1/2" & 9/16"
A19	19/32" 12 Point Socket	2892	5/8" & 11/16"
A20	5/8" 12 Point Socket	2893	3/4" & 13/16"
A22	11/16" 12 Point Socket	2894	7/8" & 15/16"
A24	3/4" 12 Point Socket		
A25	25/32" 12 Point Socket		
A26	13/16" 12 Point Socket		
A28	7/8" 12 Point Socket		

Bonney tool sets are especially designed to cover specific types of jobs with all of the tools necessary to complete these jobs. In most cases, the sets are basic and can be added to to round out any particular drive size. Any information not covered in this section can be secured by writing to Bonney Forge & Tool Works in Alliance, Ohio. Special tools are an outstanding feature with Bonney.

## TOOL SETS 1/2 INCH SQUARE DRIVE



### **AM36B**

**Width 23-1/8"**  
**Depth 11-1/8"**  
**Height 10-3/4"**

Part No.	Description
A14	7/16" 12 Point Socket
A16	1/2" 12 Point Socket
A18	9/16" 12 Point Socket
A19	19/32" 12 Point Socket
A20	5/8" 12 Point Socket
A22	11/16" 12 Point Socket
A24	3/4" 12 Point Socket
A25	25/32" 12 Point Socket
A26	13/16" 12 Point Socket
A28	7/8" 12 Point Socket
A30	15/16" 12 Point Socket
A32 1*	12 Point Socket
LD22	11/16" Ex. Deep Socket, 12 Pt.
LD26T	13/16" Ex. Deep Socket, 12 Pt.
LD28T	7/8" Ex. Deep Socket, 12 Pt.
AS16	1/2" 8 Point Socket
AS18	9/16" 8 Point Socket
2591	5/16"-3/4" Stud Wrench
A785	15/16" Drag Link Socket
A740	Speeder, 14"
A730	Sliding "T" Handle, 11"
A605	Extension, 5"
A610	Extension, 10"
A775	Cross Handle, 8"
A760	Universal Joint
A722	Hinge Handle
A701	Reversible Ratchet, 10"
1161	7/16" 12 Point Comb. Wrench
1162	1/2" 12 Point Comb. Wrench
1163	9/16" 12 Point Comb. Wrench
1164	5/8" 12 Point Comb. Wrench

**AM36B** — This set is designed as a mechanic's main tool set, consisting of popular sockets and attachments in 1/2" drive, plus open end wrenches, combination wrenches, chisels, punches, pliers, box wrenches, screwdrivers, hack saw, and hammers. Packed in metal box MB76. 72 PIECES, SHIPPING WEIGHT 68.500 LBS.

Part No.	Description
E1214	Open End Straight Wrench 3/8" & 7/16"
E1618	1/2" & 9/16"
E2022	5/8" & 11/16"
E1925	19/32" & 25/32"
E2426	3/4" & 13/16"
E2830	7/8" & 15/16"
422	Tappet Wrench 1/2" & 9/16" 2 each
424	5/8" & 11/16" 2 each
2804L	12 Point Box Wrench 3/8" & 7/16"
2805L	1/2" & 9/16"
2807A	5/8" & 11/16"
2808	3/4" & 7/8"
2810	15/16" & 1"
C2	Blade Chisel, 7/16" Cut
C4	Blade Chisel, 3/4" Cut
C6	Blade Chisel, 1" Cut
C12	Blade Cape Chisel, 1/4" Cut
C15	Blade Diamond Chisel, 1/4" Cut
C21	Pt. Solid Punch, 1/16" Point
C23	Solid Punch, 1/8" Point
C25	Taper Punch, 5/32" Point
C28	Pin Punch, 1/8" Point
C30	Pin Punch, 1/4" Point
C34	Center Punch
C38	Pinch Bar, 16"
001-2	Screwdriver, 2" Blade
E03	Bl. Neon Screwdriver, 3" Blade
S01	Bl. Adj. Screwdriver, 1-3/4" Bl.
S04	Bl. Adj. Screwdriver, 4" Blade
06	Screwdriver, 6" Blade
08	Screwdriver, 8" Blade
006	Screwdriver, 6" Blade
CP2	Phillips Screwdriver, Screws 5-9
PH2	Ball Pein Hammer, 2 oz.
PH7	Ball Pein Hammer, 16 oz.
B45	Rib Joint Plier
B35	Ignition Plier
2628	Hack Saw
K54	Standard Feeler Gauge



## TOOL SET AM44B 3/8-1/2-3/4 INCH SQUARE DRIVE

**AM44B** — This set also designed as a mechanic's main tool set, much like the AM36B, but not including screwdrivers, pliers, hack saw, hammers, chisels, and punches. A complete set offering 3/8", 1/2", and 3/4" square drive sockets and attachments. Packed in metal box MB76. 70 PIECES, SHIPPING WEIGHT 75.500 LBS.

### Part No.      Description

T10	5/16" 12 Point Socket
T12	3/8" 12 Point Socket
T14	7/16" 12 Point Socket
T16	1/2" 12 Point Socket
T18	9/16" 12 Point Socket
T19	19/32" 12 Point Socket
T20	5/8" 12 Point Socket
T760	Universal Joint
T606	Extension, 6"
T612	Extension, 12"
T742	Speeder, 17-1/2"
T720	Hinge Handle, 8-1/2"
T775	Cross Handle, 6"
T701	Reversible Ratchet, 8"
T730	Sliding "T" Handle, 8"
AS14	7/16" 8 Point Socket
AS16	1/2" 8 Point Socket
AS18	9/16" 8 Point Socket
A14	7/16" 12 Point Socket
A16	1/2" 12 Point Socket
A18	9/16" 12 Point Socket
A19	19/32" 12 Point Socket
A20	5/8" 12 Point Socket
A22	11/16" 12 Point Socket
A24	3/4" 12 Point Socket
A25	25/32" 12 Point Socket
A26	13/16" 12 Point Socket
A28	7/8" 12 Point Socket
A30	15/16" 12 Point Socket
A32	1" 12 Point Socket
A785	15/16" Drag Link Socket
A787	1-1/4" Drag Link Socket
LD22	11/16" Ex. Deep Socket, 12 Pt.
LD26T	13/16" Ex. Deep Socket, 12 Pt.
LD28T	7/8" Ex. Deep Socket, 12 Pt.
A740	Speeder, 14"
A744	Speeder, 19-3/4"
A730	Sliding "T" Handle, 11"
A605	Extension, 5"
A610	Extension, 10"
A775	Cross Handle, 8"
A760	Universal Joint
A722	Hinge Handle, 15"
A701	Reversible Ratchet, 10"



### AM44B

Width 23-1/8"  
Depth 11-1/8"  
Height 10-3/4"

### Part No.      Description

R34	1-1/16" 12 Point Socket
R36	1-1/8" 12 Point Socket
R40	1-1/4" 12 Point Socket
R42	1-5/16" 12 Point Socket
R46	1-7/16" 12 Point Socket
R48	1-1/2" 12 Point Socket
R52	1-5/8" 12 Point Socket
R730	Sliding "T" Handle, 20"
R609	Extension, 8-1/2"
R617	Extension, 17"
	Open End Miniature Wrench
H10	3/16" & 7/32"
H12	1/4" & 9/32"
H14	5/16" & 11/32"
H16	3/8" & 7/16"
H18	13/32" & 15/32"
	Open End Straight Wrench
E1214	3/8" & 7/16"
E1618	1/2" & 9/16"
E2022	5/8" & 11/16"
E2426	3/4" & 13/16"
E2830	7/8" & 15/16"
2725B	Right Angle Wrench 1/2" & 9/16"
2804	Box Wrench, 3/8" & 7/16"
2805	Box Wrench, 1/2" & 9/16"
2807A	Box Wrench, 5/8" & 11/16"
2808	Box Wrench, 3/4" & 7/8"
2810	Box Wrench, 15/16" & 1"
MB76	Metal Box

## TOOL SET AM48 1/4-3/8-1/2-3/4 INCH SQUARE DRIVE



Part No.	Description
<b>AM48B</b>	
T12	3/8" 12 Point Socket
T14	7/16" 12 Point Socket
T16	1/2" 12 Point Socket
T18	9/16" 12 Point Socket
T20	5/8" 12 Point Socket
T22	11/16" 12 Point Socket
T24	3/4" 12 Point Socket
T606	Extension, 6"
T612	Extension, 12"
T720	Hinge Handle, 8-1/2"
T775	Cross Handle, 6"
T701	Reversible Ratchet, 7"
A14	7/16" 12 Point Socket
A16	1/2" 12 Point Socket
A18	9/16" 12 Point Socket
A19	19/32" 12 Point Socket
A20	5/8" 12 Point Socket
A22	11/16" 12 Point Socket
A24	3/4" 12 Point Socket
A25	25/32" 12 Point Socket
A26	13/16" 12 Point Socket
A28	7/8" 12 Point Socket
A30	15/16" 12 Point Socket
A32	1" 12 Point Socket
LD20	5/8" Extra Deep Socket 3-1/4" Long
LD22	11/16" Extra Deep Socket 3-1/4" Long
LD26T	13/16" Extra Deep Socket 3-1/4" Long
LD28T	7/8" Extra Deep Socket 3-1/4" Long
AS14	7/16" 8 Point Socket
AS16	1/2" 8 Point Socket
AS18	9/16" 8 Point Socket
A744	Speeder, 20"
A605	Extension, 5"
A610	Extension, 10"
A775	Cross Handle, 8"

- This set contains the popular sockets and attachments in 1/4", 3/8", 1/2", and 3/4" square drive plus open end and box end wrenches. This is an ideal set for the mechanic who wants to begin with a range of drive ends which can be added to as needed. Packed in metal box MB76. 84 PIECES, SHIPPING WEIGHT 79.500 LBS.

Part No.	Description
A722	Hinge Handle, 15"
A701	Reversible Ratchet, 10"
R34	1-1/16" 12 Point Socket
R36	1-1/8" 12 Point Socket
R40	1-1/4" 12 Point Socket
R42	1-5/16" 12 Point Socket
R46	1-7/16" 12 Point Socket
R48	1-1/2" 12 Point Socket
R701	Reversible Ratchet, 20"
R730	Sliding "T" Handle, 20"
R609	Extension, 8-1/2"
	Open End Miniature Wrench
H10	3/16" & 7/32"
H12	1/4" & 9/32"
H14	5/16" & 11/32"
H16	3/8" & 7/16"
H18	13/32" & 15/32"
422	Tappet Wrench, 1/2" & 9/16" 2 each
424	Tappet Wrench, 5/8" & 11/16" 2 each
426	Tappet Wrench, 3/4" & 7/8" 2 each
	Open End Streamlined Wrench
E1214	3/8" & 7/16"
E1618	1/2" & 9/16"
E2022	5/8" & 11/16"
E1925	19/32" & 25/32"
E2426	3/4" & 13/32"
E2830	7/8" & 15/16"
	15" Angle Box Wrench
2890	3/8" & 7/16"
2891	1/2" & 9/16"
2892	5/8" & 11/16"
2893	3/4" & 13/16"
2894	7/8" & 15/16"
2895C	1" & 1-1/8"
2591	Stud Wrench
V Line	Sub-Assembly Set
V6	3/16" 12 Point Socket
V7	7/32" 12 Point Socket
V8	1/4" 12 Point Socket
V9	9/32" 12 Point Socket
V10	5/16" 12 Point Socket
V11	11/32" 12 Point Socket
V12	3/8" 12 Point Socket
V14	7/16" 12 Point Socket
V730	Sliding "T" Handle, 4-1/2"
V606	Extension, 6"
V602	Extension, 2"
V720	Hinge Handle, 5-3/4"
V775	Cross Handle, 3-1/2"
MB12	Metal Box
MB76	Metal Box


**TOOL SET AM60B 1/4-3/8-1/2-3/4 INCH SQUARE DRIVE**

**AM60B** — This is the most complete assortment of tools in a Bonney set comprising 1/4", 3/8", 1/2", and 3/4" square drive sockets and attachments. Packed in metal box  
**MB82.** 143 PIECES, SHIPPING WEIGHT 135.000 LBS.


**AM60B**

Width 26-1/8"  
 Depth 12"  
 Height 14-1/4"

Part No.	Description	Part No.	Description
T12	3/8" 12 Point Socket	R42	1-5/16" 12 Point Socket
T14	7/16" 12 Point Socket	R46	1-7/16" 12 Point Socket
T16	1/2" 12 Point Socket	R48	1-1/2" 12 Point Socket
T18	9/16" 12 Point Socket	R52	1-5/8" 12 Point Socket
T20	5/8" 12 Point Socket	R54	1-11/16" 12 Point Socket
T22	11/16" 12 Point Socket	R58	1-13/16" 12 Point Socket
T24	3/4" 12 Point Socket	R701	Reversible Ratchet, 20"
T27	Drag Link Socket	R730	Sliding "T" Handle, 20"
T760	Universal Joint	R609	Extension, 8-1/2"
T606	Extension, 6"	R617	Extension, 17"
T612	Extension, 12"		6 Point Small Box Wrench
T742	Speeder, 17-1/2"	E40	3/16" & 13/64"
T720	Hinge Handle, 8-1/2"	E42	7/32" & 15/64"
T603	Extension, 3"		12 Point Small Box Wrench
T775	Cross Handle, 6"	E44	1/4" & 9/32"
T701	Reversible Ratchet, 7"	E46	5/16" & 11/32"
TU14	7/16" Flex. 12 Point Socket		12 Point Box Wrench
TU16	1/2" Flex. 12 Point Socket	2804	3/8" & 7/16"
TU18	9/16" Flex. 12 Point Socket	2805	1/2" & 9/16"
TU20	5/8" Flex. 12 Point Socket	2805L	1/2" & 9/16"
A14	7/16" 12 Point Socket	2807A	5/8" & 11/16"
A16	1/2" 12 Point Socket	2808	3/4" & 7/8"
A18	9/16" 12 Point Socket	2810	15/16" & 1"
A19	19/32" 12 Point Socket		Open End Miniature Wrench
A20	5/8" 12 Point Socket	H10	3/16" & 7/32"
A22	11/16" 12 Point Socket	H12	1/4" & 9/32"
A24	3/4" 12 Point Socket	H14	5/16" & 11/32"
A25	25/32" 12 Point Socket	H16	3/8" & 7/16"
A26	13/16" 12 Point Socket	H18	13/32" & 15/32"
A28	7/8" 12 Point Socket		Open End Straight Wrench
A30	15/16" 12 Point Socket	E1214	3/8" & 7/16"
A32	1" 12 Point Socket	E1618	1/2" & 9/16"
A785	Drag Link Socket	E2022	5/8" & 11/16"
AS14	7/16" 8 Point Socket	E1925	19/32" & 25/32"
AS16	1/2" 8 Point Socket	E2426	3/4" & 13/16"
AS18	9/16" 8 Point Socket	E2830	7/8" & 15/16"
AS20	5/8" 8 Point Socket	422 (2)	Tappet Wrench, 1/2" & 9/16"
AS24	3/4" 8 Point Socket	424 (2)	Tappet Wrench, 5/8" & 11/16"
LD22	11/16" Extra Deep Socket	426 (2)	Tappet Wrench, 3/4" & 7/8"
LD26T	13/16" Extra Deep Socket	B29	7" Thin Nose, Slip Joint, Side Cutting Plier
LD28T	7/8" Extra Deep Socket	B310	10" Slip Joint Plier
A740	Speeder, 14"	B17	6" Diagonal Cutting Plier
744	Speeder, 20"	B23	8" Lineman's Cutting Plier
A730	Sliding "T" Handle, 11"	B45	10" Rib Joint Plier (Pump)
A605	Extension, 5"	B35	Ignition Plier
A602	Extension, 2"	PH2	2 oz. Ball Pein Hammer
A610	Extension, 10"	PH7	16 oz. Ball Pein Hammer
A775	Cross Handle, 8"	PH10	2 lb. Ball Pein Hammer
A760	Universal Joint	PH20	16 oz. Soft Face Hammer
A722	Hinge Handle, 15"	C2	Blade Chisel, 7/16" Cut
A701	Reversible Ratchet, 10"	C4	Blade Chisel, 3/4" Cut
R32	1" 12 Point Socket	C6	Blade Chisel, 1" Cut
R34	1-1/16" 12 Point Socket	C21	Point Solid Punch, 1/16" Point
R36	1-1/8" 12 Point Socket		(Continued on next page)
R40	1-1/4" 12 Point Socket		

**TOOL SET AM60B 1/4-3/8-1/2-3/4 INCH SQUARE DRIVE**


Part No.	Description	Part No.	Description
C26	Taper Punch, 3/16" Point	2591	Stud Wrench, 5/16" to 3/4"
C28	Point Pin Punch, 1/8" Point	2881	Starter Wrench
C29	Pin Punch, 3/16" Point	K8	8" Holding Tool
C34	Center Punch	K52	Ignition Feeler Tool
C36	Rivet Buster, 5/8" Cut	K53	Univ. Mast. Feeler Gauge
C38	Pinch Bar, 16" Long	2628	Hack Saw (Adjustable)
001-2	Screwdriver, 2" Blade	V6	3/16" 12 Point Socket
CP2	Phillips Screwdriver	V7	7/32" 12 Point Socket
006	Screwdriver, 6" Blade	V8	1/4" 12 Point Socket
0010	Screwdriver, 10" Blade	V9	9/32" 12 Point Socket
E03	Bl. Neon Screwdriver	V10	5/16" 12 Point Socket
	Bl. Adjusting Screwdriver	V11	11/32" 12 Point Socket
S01	1-3/4" Blade	V12	3/8" 12 Point Socket
S04	4" Blade	V14	7/16" 12 Point Socket
06	Screwdriver, Round Shank, 6" Blade	VS8	1/4" 8 Point Socket
08	Screwdriver, Square Shank, 8" Blade	VS10	5/16" 8 Point Socket
S012	Bl. Adjusting Screwdriver, 12" Blade (Square Shank)	VS12	3/8" 8 Point Socket
		V730	Sliding "T" Handle, 4-1/2"
		V606	Extension, 6"
		V602	Extension, 2"

**TOOL SETS 3/4 INCH SQUARE DRIVE**


**HD1B** — This set consists of a complete range of 3/4" square drive 12 point sockets and attachments especially designed for heavy duty work on buses, trucks, tractors, and industrial machinery. Packed in metal box MB68. 20 PIECES, SHIPPING WEIGHT 43.688 LBS.

Part No.	Description	Part No.	Description
R30	15/16" 12 Point Socket	R58	1-13/16" 12 Point Socket
R32	1" 12 Point Socket	R60	1-7/8" 12 Point Socket
R34	1-1/16" 12 Point Socket	R64	2" 12 Point Socket
R36	1-1/8" 12 Point Socket	R701	Reversible Ratchet, 20"
R40	1-1/4" 12 Point Socket	R730	Sliding "T" Handle, 20"
R42	1-5/16" 12 Point Socket	R720	Hinge Handle, 22"
R46	1-7/16" 12 Point Socket	R775	Cross Handle, 16-3/8", for No. 4288
R48	1-1/2" 12 Point Socket	R609	Extension, 8-1/2"
R52	1-5/8" 12 Point Socket	R604	Extension, 4"
R54	1-11/16" 12 Point Socket	R617	Extension, 17"

**TOOL SETS 1 INCH SQUARE DRIVE**


**XH1B** — This set includes a complete line of the 1" drive sockets plus the new design Bonney 1" drive ratchet for extra heavy duty work. Packed in metal box MB64. 8 PIECES, SHIPPING WEIGHT

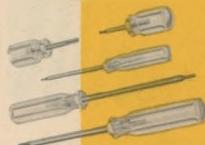
Part No.	Description	Part No.	Description
.X46	1-7/16" Socket	X64	2" Socket
X48	1-1/2" Socket	X70	2-3/16" Socket
X52	1-5/8" Socket	X76	2-3/8" Socket
X58	1-13/16" Socket	X701	Ratchet, 20"



## TOOL SETS — SCREWDRIVERS

**CL** — Consists of one each of 5 size clutch head screwdriver blades ranging from 1-5/8" to 6". This set is packaged in a cardboard container. 5 PIECES, SHIPPING WEIGHT 1.500 LBS.

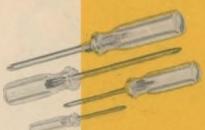
Part No.	Description	Part No.	Description
CL3	Cl. Hd. 4" Screwdriver, Bit Clutch Size 5/32"	CL13	Cl. Hd. 1-5/8" Screwdriver, Bit Clutch Size 5/32"
CL5	Cl. Hd. 6" Screwdriver, Bit Clutch Size 1/4"	CL15	Cl. Hd. 1-5/8" Screwdriver, Bit Clutch Size 1/4"
CL7	Cl. Hd. 6" Screwdriver, Clutch Size 5/16"		



**CL**

**CP** — This set will answer all requirements for screwdrivers to fit Phillips screws. The molding, hinges, and interior chrome trim are usually fastened with Phillips screws. This set includes 4 screwdrivers ranging in blade length from 3" to 8". Packed in cardboard box. 4 PIECES, SHIPPING WEIGHT 1.250 LBS.

Part No.	Description	Part No.	Description
CP1	3" Blade Phillips Screwdriver	CP3	6" Blade Phillips Screwdriver
CP2	4" Blade Phillips Screwdriver	CP4	8" Blade Phillips Screwdriver



**CP**

**WP** — This set includes one each of the WP series wood handle screwdrivers ranging in blade length from 3" to 8". Packed in cardboard box. 4 PIECES, SHIPPING WEIGHT 1.313 LBS.

Part No.	Description	Part No.	Description
WP1	3" Blade Phillips Screwdriver	WP3	6" Blade Phillips Screwdriver
WP2	4" Blade Phillips Screwdriver	WP4	8" Blade Phillips Screwdriver



**WP**

**W05** — This set consists of 5 wood handle screwdrivers ranging in blade length from 3" to 10". Packed in cardboard box. 5 PIECES, SHIPPING WEIGHT 2.250 LBS.

Part No.	Description	Part No.	Description
WO3	3" Blade Screwdriver	WO8	8" Blade Screwdriver
WO4	4" Blade Screwdriver	WO10	10" Blade Screwdriver
WO6	6" Blade Screwdriver		



**W05**

**0672** — This set consists of 3 offset screwdrivers which permit adjustments where standard screwdrivers are too large. These tools are available separately or packaged in cardboard box. Lengths of these screwdrivers vary from 4-7/8" to 5-7/8". 3 PIECES, SHIPPING WEIGHT .470 LBS.

Part No.	Description	Part No.	Description
0669	Offset Screwdriver, 4-7/8"	0671	Offset Screwdriver, 5-7/8"
0670	Offset Screwdriver, 5-3/8"		



**0672**

## TOOL SETS—IN POCKET TYPE ROLLS



**N5R**

**N5R** — This set consists of 11 popular size hexagonal keys packaged in plastic envelope. These sets are sold in dozen lots. **11 PIECES IN PLASTIC ROLL LR5. PER SET, SHIPPING WEIGHT .625 LBS.**

Part No.	Description	Part No.	Description
	Hexagonal Key	AW5	5/32" Across Flats
AW1	.050" Across Flats	AW6	3/16" Across Flats
AW2	1/16" Across Flats	AW7	7/32" Across Flats
AW2-1/2	5/64" Across Flats	AW8	1/4" Across Flats
AW3	3/32" Across Flats	AW10	5/16" Across Flats
AW4	1/8" Across Flats	AW12	3/8" Across Flats



**N8**

**N8** — This set includes all the necessary tools for the proper camber-caster adjustments. Packed in cardboard container. **7 PIECES, SHIPPING WEIGHT .595 LBS.**

Part No.	Description	Part No.	Description
	O. E. Crowfoot Wrench	1238	Service Wrench 1-3/16" Opening
1609	1-1/4" Opening		Socket Head Wrench
1611	1-5/16" Opening	TW8	3/8" Drive
1612	1-13/32" Opening	TW10	3/8" Drive
1613	1-7/16" Opening		
1614	1-1/2" Opening		
1615	1-3/8" Opening		



**N11R**

**N11R** — This set is designed for ignition service. Contains 6 small open end wrenches especially designed for this type of work. Also includes necessary feeler gauge, ignition plier, point file, small adjustable wrench, and neon tube screwdriver. Packed in plastic roll LR36. **10 PIECES, SHIPPING WEIGHT .625 LBS.**

Part No.	Description	Part No.	Description
	Electric Wrench		Electric Wrench
	15° End      60° End	E24	5/16" & 9/32"
E14	13/64" & 15/64"	BW4	Adjust. End Wrench, 4"
E16	15/64" & 13/64"	5-3/8"	Point File
E18	7/32" & 1/4"	E02	Bl. Neon Screwdriver
E20	1/4" & 7/32"	K52	Ignition Feeler Gauge
E22	9/32" & 5/16"	B35	Ignition Plier



**N13R**

**N13R** — The tools contained in this set are especially designed to handle all types of ignition repair and adjustment plus many adjustments on electrical system. Each wrench is especially designed for its particular application. Packed in plastic roll LR36. **10 PIECES, SHIPPING WEIGHT .625 LBS.**

Part No.	Description	Part No.	Description
	Ignition Wrench	E7	15/64" & 17/64"
E2	1/4" & 1/4"	E8	7/32" & 7/16"
E3	17/64"-9/32"-11/32"	E9	1/2"
E4	5/16"	E10	3/8" & 7/16"
E5	5/16"	E11	15/64" & 9/32"
E6	5/16"		



## TOOL SETS—IN POCKET TYPE ROLLS

**N20R** — This set includes 5 miniature wrenches designed especially for perfect fit on small applications. Tiny in size, but built for strength and durability. Packed in plastic roll LR24. 5 PIECES, SHIPPING WEIGHT .313 LBS.

Part No.	Description	Part No.	Description
H10	O. E. Miniature Wrench 3/16" & 7/32"	H14	5/16" & 11/32"
H12	1/4" & 9/32"	H16	3/8" & 7/16"
		H18	13/32" & 15/32"



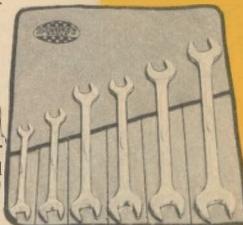
**N20R**

**N24R** — This set includes 9 open end wrenches designed for adjustments on electrical system and ignition repair. Packed in plastic roll LR28. 9 PIECES, SHIPPING WEIGHT .469 LBS.



**N24R**

Part No.	Description	Part No.	Description
E14	Electric Wrench 13/64" & 15/64"	E22	9/32" & 5/16"
E16	15/64" & 13/64"	E24	5/16" & 9/32"
E18	7/32" & 1/4"	E26	11/32" & 3/8"
E20	1/4" & 7/32"	E28	3/8" & 11/32"
		E30	7/16" & 1/2"



**N45R**

**N45R** — This set contains open end wrenches in popular sizes from 1/4" to 5/16" openings. Packed in plastic roll LR56. 6 PIECES, SHIPPING WEIGHT 1.843 LBS.

Part No.	Description	Part No.	Description
E810	Open End Str. Wrench 1/4" & 5/16"	E2022	5/8" & 11/16"
E1214	3/8" & 7/16"	E2426	3/4" & 13/16"
E1618	1/2" & 9/16"	E2830	7/8" & 15/16"



**N46R** — This set contains 6 streamlined Bonney wrenches, openings ranging from 5/16" to 1". Packed in plastic roll LR56. 6 PIECES, SHIPPING WEIGHT 2.313 LBS.



**N46R**

Part No.	Description	Part No.	Description
E1012	Open End Str. Wrench 5/16" & 3/8"	E2224	11/16" & 3/4"
E1416	7/16" & 1/2"	E2628	13/16" & 7/8"
E1820	9/16" & 5/8"	E3032	15/16" & 1"



**16**

**N56R** — This set includes 5 standard combination wrenches representing the popular openings from 7/16" to 11/16". Packed in plastic roll LR72. 5 PIECES, SHIPPING WEIGHT 1.250 LBS.

Part No.	Description	Part No.	Description
1161	12 Point Comb. Wrench 7/16"	1163	9/16"
1162	1/2"	1164	5/8"
		1165	11/16"



**N56R**

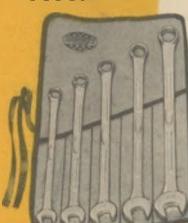
## TOOL SETS—IN POCKET TYPE ROLLS



**N60R**

**N60R** — This set is made up of 5 combination wrenches in 12 point box end and ranging in openings from  $7/16''$  to  $11/16''$ . Packed in plastic roll LR72. 5 PIECES, SHIPPING WEIGHT 1.563 LBS.

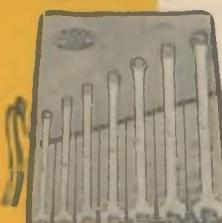
Part No.	Description	Part No.	Description
1114	12 Point Comb. Wrench $7/16''$	1118	$9/16''$
1116	$1/2''$	1120	$5/8''$
		1122	$11/16''$



**N61R**

**N61R** — This set is made up of 5 combination wrenches in the popular 6 point box end ranging in openings from  $7/16''$  to  $11/16''$ . Packed in plastic roll LR72. 5 PIECES, SHIPPING WEIGHT 1.532 LBS.

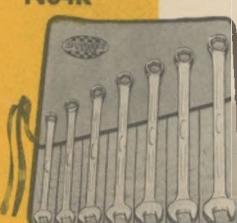
Part No.	Description	Part No.	Description
1114H	$7/16''$ 6 Pt. Comb. Wrench	1120H	$5/8''$ 6 Pt. Comb. Wrench
1116H	$1/2''$ 6 Pt. Comb. Wrench	1122H	$11/16''$ 6 Pt. Comb. Wrench
1118H	$9/16''$ 6 Pt. Comb. Wrench		



**N64R**

**N64R** — This set is made up of 7 combination wrenches featuring 12 point box end and openings ranging from  $3/8''$  to  $3/4''$ . Packed in plastic roll LR80. 7 PIECES, SHIPPING WEIGHT .222 LBS.

Part No.	Description	Part No.	Description
1112	12 Point Comb. Wrench	1120	12 Point Comb. Wrench
1114	12 Point Comb. Wrench	1122	12 Point Comb. Wrench
1116	12 Point Comb. Wrench	1124	12 Point Comb. Wrench
1118	12 Point Comb. Wrench		



**N65R**

**N65R** — This set is composed of 7 combination wrenches with 6 point box end and openings ranging from  $3/8''$  to  $3/4''$ . Packed in plastic roll LR80. 7 PIECES, SHIPPING WEIGHT .242 LBS.

Part No.	Description	Part No.	Description
1112H	$3/8''$ 6 Pt. Comb. Wrench	1120H	$5/8''$ 6 Pt. Comb. Wrench
1114H	$7/16''$ 6 Pt. Comb. Wrench	1122H	$11/16''$ 6 Pt. Comb. Wrench
1116H	$1/2''$ 6 Pt. Comb. Wrench	1124H	$3/4''$ 6 Pt. Comb. Wrench
1118H	$9/16''$ 6 Pt. Comb. Wrench		



**N68R**

**N68R** — This set is made up of 8 popular combination wrenches in openings from  $3/8''$  to  $7/8''$ . Packed in plastic roll LR84. 8 PIECES, SHIPPING WEIGHT .250 LBS.

Part No.	Description	Part No.	Description
1160	$3/8''$ 12 Pt. Comb. Wrench	1164	$5/8''$ 12 Pt. Comb. Wrench
1161	$7/16''$ 12 Pt. Comb. Wrench	1165	$11/16''$ 12 Pt. Comb. Wrench
1162	$1/2''$ 12 Pt. Comb. Wrench	1166	$3/4''$ 12 Pt. Comb. Wrench
1163	$9/16''$ 12 Pt. Comb. Wrench	1167	$7/8''$ 12 Pt. Comb. Wrench



## TOOL SETS—IN POCKET TYPE ROLLS

**N80R** — This set is made up of extra small box end wrenches ideal for repair work on generators, carburetors, starters, and electrical systems where parts are small and limited space available. Packed in plastic roll LR8. 4 PIECES, SHIPPING WEIGHT .188 LBS.

Part No.	Description	Part No.	Description	<b>N80R</b>
E40	6 Point Small Box Wrench 3/16" & 13/64"	E44	12 Point Small Box Wrench 1/4" & 9/32"	
E42	7/32" & 15/64"	E46	5/16" & 11/32"	



**N93R** — This set is made up of 5 long type double off-set box wrenches in openings ranging from 3/8" to 15/16". Packed in plastic roll LR97. 5 PIECES, SHIPPING WEIGHT .325 LBS.

Part No.	Description	Part No.	Description
2804L	12 Point Box Wrench 3/8" & 7/16"	2807A	5/8" & 11/16"
2805L	1/2" & 9/16"	2808F	3/4" & 13/16"
		2809	7/8" & 15/16"



**N93R**

**N98R** — This set contains 5 long type wrenches in openings ranging from 3/8" to 15/16". Packed in plastic roll LR97. 5 PIECES, SHIPPING WEIGHT .428 LBS.

Part No.	Description	Part No.	Description
2891	12 Point Angle Box Wrench 1/2" & 9/16"	2893	3/4" & 11/16"
2892	5/8" & 11/16"	2894	7/8" & 15/16"
		2895C	1" & 1-1/8"



**N98R**

**C45R** — This set includes a good assortment of flat chisels covering most straight cutting operations. Packed in plastic roll LR70. 5 PIECES, SHIPPING WEIGHT 3.500 LBS.

Part No.	Description	Part No.	Description
C2	7/16" Cut Blade Chisel	C5	7/8" Cut Blade Chisel
C3	5/8" Cut Blade Chisel	C6	1" Cut Blade Chisel
C4	3/4" Cut Blade Chisel		



**C45R**

**16**

**C46R** — This set includes a good assortment of chisels and punches which will cover most applications for the average mechanic. Packed in plastic roll LR96. 13 PIECES, SHIPPING WEIGHT 6.375 LBS.

Part No.	Description	Part No.	Description
C2	7/16" Cut Blade Chisel	C15	1/4" Cut Blade Diamond Chisel
C3	5/8" Cut Blade Chisel	C16	3/8" Cut Blade Diamond Chisel
C4	3/4" Cut Blade Chisel	C28	1/8" Point Pin Punch
C5	7/8" Cut Blade Chisel	C29	3/16" Point Pin Punch
C6	1" Cut Blade Chisel	C30	1/4" Point Pin Punch
C12	1/4" Cut Blade Cape Chisel	C34	5" Length Center Punch
C13	3/8" Cut Blade Cape Chisel		



**C46R**



## TOOL SETS - BODY & FENDER TOOLS



### FB3B

Width 21-7/8"  
Depth 9-1/4"  
Height 5"



**FB3B** — The tools contained in this set will fill the requirements of any apprentice or the shop which does occasional body and fender work. Packed in metal box MB64. 11 PIECES, SHIPPING WEIGHT 29.375 LBS.

Part No.	Description	Part No.	Description
F2	Toe Dolly	F31	Adjustable File Holder
F5	Wedge Dolly	PH22	Bumping Hammer
F6	Universal Dolly	PH24	Dinging Hammer
F12	Hand-Hold Dolly	PH26	Bumping Hammer
F16	Panel Spoon	PH31	Long Pick Hammer
F25	14" Flexible File Blade		

See Section 8 for Dimensions on Dollies and Spoons.

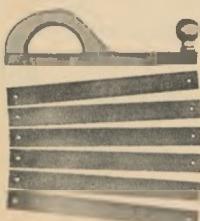
### FB8B

Width 21-7/8"  
Depth 9-1/4"  
Height 5"

Part No.	Description	Part No.	Description
F2	Toe Dolly	F15	Body Spoon
F3	Heel Dolly	F16	Panel Spoon
F4	Bar Dolly	F25	14" Flexible File Blade
F5	Wedge Dolly	F31	Adjustable File Holder
F6	Universal Dolly	PH22	Bumping Hammer
F7	Budd Dolly	PH23	Light Bumping Hammer
F10	Hand-Hold Dolly	PH24	Dinging Hammer
F11	Angle Dolly	PH25	Light Dingding Hammer
F12	Hand-Hold Dolly	PH26	Bumping Hammer
F13	Door Spoon	PH31	Long Pick Hammer

See Section 8 for Dimensions on Dollies and Spoons.

### F26 SET



**F26** — This set consists of one F24 file holder and 6 F25 14" flexible "U" tooth files. The holder is furnished free with this set. Packed in cardboard box. 7 PIECES, SHIPPING WEIGHT 5.188 LBS.

Part No.	Description
F24	File Holder
F25	14" Flexible U Tooth Files



## TOOL SETS — AIR CONDITIONING & REFRIGERATION

**RF80B** — This kit of refrigeration tools includes most of the sockets and attachments for the man just beginning refrigeration service. Packed in metal box MB16. 20 PIECES, SHIPPING WEIGHT .206 LBS.

Part No.	Description	Part No.	Description
V8	1/4" 12 Point Socket	RF4	Valve Stem Socket
V9	9/32" 12 Point Socket	RF5	Valve Stem Socket
V10	5/16" 12 Point Socket	RF6	Packing Nut Socket
V11	11/32" 12 Point Socket	RF16	Packing Nut Socket
V12	3/8" 12 Point Socket	RF71	Packing Nut Socket
V14	7/16" 12 Point Socket	RF72	Packing Nut Socket
V730	Sliding "T" Handle, 4-1/2"	RF73	Packing Nut Socket
V606	Extension, 6"	RF67	Kerostet Socket
RF2	Valve Stem Socket	RF49	Adapter
RF3	Valve Stem Socket	RF45	Reversible Ratchet



### RF80B

Width 7-3/4"  
Depth 3-3/8"  
Height 1-1/16"

**RF81B** — This set of refrigeration tools is more complete than the smaller RF80B set. Has all the necessary sockets and attachments plus box end wrenches to enable the serviceman to handle most repairs and adjustments. Packed in metal box MB24. 28 PIECES, SHIPPING WEIGHT 1.815 LBS.

Part No.	Description	Part No.	Description
V8	1/4" 12 Point Socket	RF3	Valve Stem Socket
V9	9/32" 12 Point Socket	RF4	Valve Stem Socket
V10	5/16" 12 Point Socket	RF5	Valve Stem Socket
V11	11/32" 12 Point Socket	RF6	Packing Nut Socket
V12	3/8" 12 Point Socket	RF16	Packing Nut Socket
V14	7/16" 12 Point Socket	RF71	Packing Nut Socket
V730	Sliding "T" Handle, 4-1/2"	RF73	Packing Nut Socket
V606	Extension, 6"	RF67	Kerostet Socket
T606	Extension, 6"	RF49	Adapter, 1/4"x1/4"
T16	1/2" 12 Point Socket	RF41	Adapter, 1/4"x3/8"
T18	9/16" 12 Point Socket	RF45	Reversible Ratchet
T20	5/8" 12 Point Socket	2804	12 Point Box Wrench 3/8" & 7/16"
T730	Sliding "T" Handle, 8"	2805	1/2" & 9/16"
RF2	Valve Stem Socket	2806C	5/8" & 11/16"



### RF81B

Width 8-5/8"  
Depth 5-15/16"  
Height 1-1/4"

## RF66 TUBE BENDING SET

**RF66** Tube Bending Set — This complete set of tube benders is must for the complete tool set. Contains benders for tubing from 1/4" to 5/8". Packed in cardboard box. 6 PIECES, SHIPPING WEIGHT .216 LBS.

Part No.	Description	Part No.	Description
RF60	Tube Bender, 10"	RF63	Tube Bender, 12"
RF61	Tube Bender, 10"	RF64	Tube Bender, 12"
RF62	Tube Bender, 10"	RF65	Tube Bender, 12"



## AUTOMATIC TRANSMISSION TOOLS



### 27010 "UNIVERSAL"

#### BAND ADJUSTING TOOL

Band adjustments can be made in 15 minutes with this tool on Hydramatic, Fordomatic, Merc-o-matic, Dynaflow, Powerflite, and Powerglide.



### 27030 FRONT SERVO GAGE

This tool is used to adjust the front band of the hydramatic transmission. In less than 30 minutes, an experienced mechanic can adjust front and rear bands.



### ALIGNMENT PILOT PINS

**27510—27520—27530—27540**

Proper alignment of bolt holes saves valuable time when installing transmissions.

(TWO EACH PINS)



### 27090 HUB RETAINING BRACKET

Holds rear clutch hub in place, thus assuring proper installation with minimum time and effort.



### 27370 GOVERNOR SLEEVE ALIGNER

Assures proper alignment of governor when assembling the transmission.



### 27430 LIFTING TOOL

Designed basically to enable the mechanic to lift the clutch assembly without danger of injury.

### 27020 BAND ADJUSTING GAGE

Used in conjunction with a TDR50-I Torque Wrench to tighten adjusting screws on Ford-o-matic and Merc-o-matic.



### 27040 REAR SERVO GAGE

BONNEY

A Bonney tool used to adjust the rear servo on the hydramatic transmission.

### 27190 THROTTLE LINKAGE PINS (3)

Used to make linkage adjustments and substitute as alignment pins. Takes the "guesswork" out of difficult installation jobs.



### 27110 SEAL INSTALLER

This Bonney tool is designed to protect the reverse piston outer seal when installing the piston in the cylinder.

### 27340 PARALLEL JAW PLIER

The unique design of these pliers enables the jaws to remain parallel when removing snap rings.



### 27240 THROTTLE PRESSURE ADJUSTMENT WRENCH

Used in conjunction with the oil pressure gage (#27460) for accurate adjustment.

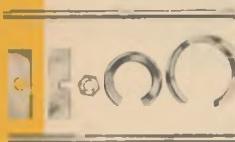


**27380 OIL DELIVERY SLEEVE  
RING COMPRESSOR**


Prevents breakage of front clutch unit in assembly by compressing the oil seal rings on the oil delivery sleeve.

**27360 MAINSHAFT  
"END-PLAY" GUIDE**


An essential tool for checking end-play of the transmission.

**27050 CLUTCH SPRING COMPRESSOR 27330 BLOW GUN**


Another "universal" tool used to compress clutch springs in various transmissions.


**27350 REAR  
UNIT HOLDER**

Prevents rotation of the rear unit when loosening or tightening bolts. Fits over bolt heads and holds unit in place.

**27460 OIL PRESSURE GAGE**

Large easy-to-read, 3-1/2" dial face for greater accuracy in setting oil pressures on all automatic transmissions.



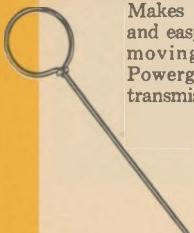
A really handy tool in overhaul work.  
For blowing out small oil passages.

**27070 DIAL INDICATOR HOLDER**


This one rod takes the place of two featured by some manufacturers. Another Bonney "universal" tool.

**27550 TORQUE WRENCH  
EXTENSION**

Used in conjunction with the TDR50-I torque wrench to enable easy adjustment of front band from under car.

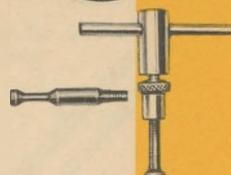

**27450 BEARING REMOVER**


Makes bearing removal safe and easy. Also handy for removing snap rings from Powerglide and Dynaflow transmissions.

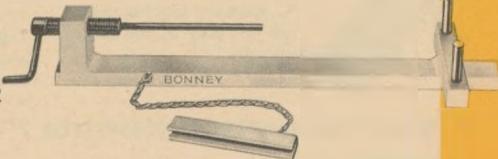
This tool fits all models. Used in conjunction with a dial indicator.

**27080 SLEEVE REMOVER**

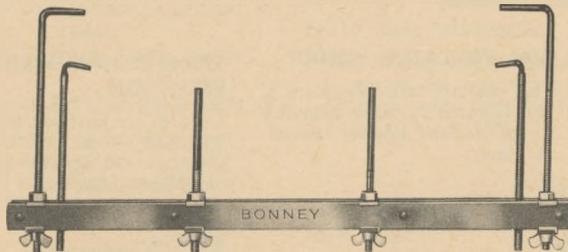
Primarily intended for removing the oil delivery sleeve on Ford-o-matic. With the added fitting, the mechanic can also remove the line exhaust valve sleeve on hydramatic transmission.

**TH14 SINGLE HEXAGON BONNEY SOCKET**

With this specially designed six-point socket, drain plugs and aluminum fittings can be removed with little danger of damage.

**27440 REAR SERVO SPRING COMPRESSOR**

Without this tool, it is virtually impossible to compress all the springs on the rear servo of the hydramatic transmission.

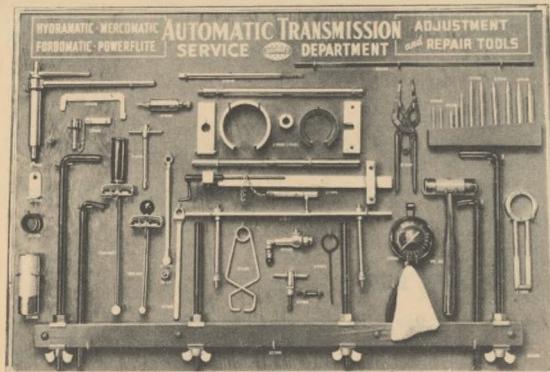
**27390 "UNIVERSAL" ENGINE SUPPORT FIXTURE**

The small shop will benefit greatly from the use of this fixture, allowing the car to be moved about after the transmission is removed.

**FOR MORE INFORMATION...**

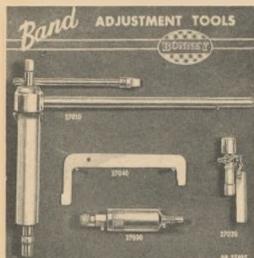
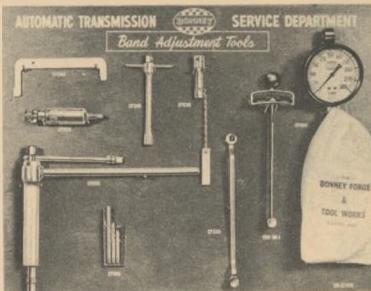
For complete information on any of the tools mentioned, write for catalog ATT which fully explains the operation of each tool.

Bonney offers a complete line of tools for adjusting or repairing late model automatic transmissions. Below are shown the three (3) display boards holding the various selections.



The large board (above) #27480 offers the entire set of tools. With the many "universal" tools on this board, the mechanic can make major repairs and adjustments on most late model automatic transmissions.

For the mechanic who wants to specialize in band adjustments, the 27490 display board is recommended. Featured on this board are all the tools necessary for accurate band adjustments.



The smallest board #27495 answers the requirements for simple band adjustments. Featured here is the #27010 "universal" band adjusting tool which replaces many of the "extras" found in other sets on the market.



## METAL BOXES



All of these metal boxes are made of strong, heavy gage sheet metal finished in attractive Bonney red "crackle" enamel. All given measurements are outside diameter. All metal boxes are 22 gage cold rolled steel with the exception of MB60 which is 20 gage. The bottom of each box is of a slightly heavier gage for added strength.

### *MB8 tool box*

Featuring a button catch — no dividers.

WIDTH 4-7/8" DEPTH 2-3/8" HEIGHT 1" WEIGHT LBS. .297



### *MB12 tool box*

This box has a button catch and a divider.

WIDTH 6-1/2" DEPTH 4-13/16" HEIGHT 1-3/16"  
WEIGHT LBS. .844



### *MB16 tool box*

Features a button catch and a divider.

WIDTH 7-3/4" DEPTH 3-3/8" HEIGHT 1-1/16"  
WEIGHT LBS. .812



### *MB20 tool box*

Features a button catch and contains a divider.

WIDTH 8-1/2" DEPTH 4" HEIGHT 1-1/2"  
WEIGHT LBS. .812



### *MB24 tool box*

This box has a button catch and several dividers.

WIDTH 8-5/8" DEPTH 5-15/16" HEIGHT 1-1/4"  
WEIGHT LBS. 1.562



### *MB36 tool box*

Features a button catch and a divider.

WIDTH 13" DEPTH 3" HEIGHT 1-7/8"  
WEIGHT LBS. 1.312



## TOOL BOXES — CABINETS — CHESTS — ROLLS

### MB40 tool box

Features a trunk catch and contains a divider.

WIDTH 18-3/8" DEPTH 2-3/4" HEIGHT 1-7/8"  
WEIGHT LBS. 2.062



### MB44 tool box

It has a trunk catch, side carrying handle and contains a divider.

WIDTH 18-1/4" DEPTH 4-5/8" HEIGHT 1-5/8"  
WEIGHT LBS. 2.719



### MB56 tool box

This box has two (2) trunk catches, side carrying handle and contains a divider.

WIDTH 20-7/16" DEPTH 8-3/8" HEIGHT 2-1/4"  
WEIGHT LBS. 4.875



### MB60 tool box

This box has a padlock hasp, two (2) trunk catches, top carrying handle and has a divided sliding tray 21-3/8" wide, 4" deep and 15/16" high. (MB60-1)  
This is the same box as MB64 with (MB60-1) tray.

WIDTH 21-7/8" DEPTH 9-1/4" HEIGHT 5"  
WEIGHT LBS. 10.406



### MB64 tool box

Featuring a padlock hasp, two (2) trunk catches and top carrying handle.

WIDTH 21-7/8" DEPTH 9-1/4" HEIGHT 5"  
WEIGHT LBS. 8.750



### MB68 tool box

This box has a padlock hasp, two (2) trunk catches, top carrying handle and contains 2 dividers.

This is the MB64 box with removable MB68-1 and MB68-2 dividers.

WIDTH 21-7/8" DEPTH 9-1/4" HEIGHT 5"  
WEIGHT LBS. 9.344





## METAL CHESTS

HEAVY DUTY CHESTS DESIGNED TO HOLD COMPLETE TOOL SETS



### TOP DRAWER

20-3/8" wide, 9-7/8" deep, 2" high

### LOWER DRAWER

20-3/4" wide, 9-7/8" deep, 3" high

### MB76 CHEST

The shell, cover, panel, top tray and ends are 20 gage.

Cover and stiffener are 28 gage.

Shims, lock catch and handle plates are of 16 gage.

Also made of heavy gage sheet metal with Bonney red "crackle" enamel finish. The fold over front which covers the drawers has a built-in lock and has two drawers with non-tilt extension slides. Drawer dimensions:

### OVERALL DIMENSIONS OF CHEST:-

Width 23-1/8", Depth 11-1/8", Height 10-3/4".

Weight 37 lbs.



### MB82 CHEST

Shell, cover, slides, carriers and ends are 20 gage.

Drawer shell, drawer back, cover stiffener are 22 gage.

Cover angle is of 24 gage.

Shims, handle plates and extension rods are of 16 gage.

Heavy gage sheet metal with Bonney red "crackle" enamel finish. The fold over front which covers the drawers has a 3-arm built-in lock. Six drawers with non-tilt extension slides. Drawer dimensions:

### TOP ROW—(3 small drawers)—

Width 8", Depth 11", Height 1-1/16"

### 2ND ROW—(full length drawer)—

Width 23-3/4", Depth 11", Height 2-1/8"

### 3RD ROW—(full length drawer)—

Width 23", Depth 11", Height 2-1/8"

### 4TH ROW—(full length drawer)—

Width 23", Depth 11", Height 3-1/2"

### OVERALL DIMENSIONS OF CHEST:

Width 26-1/8", Depth 12", Height 14-1/4".

Weight 57 lbs.

## ROLLER CABINETS

HEAVY DUTY CONSTRUCTION WITH LARGE CASTERS  
FOR EASY ROLLING

### CC5 ROLLER CABINET

An ideal storage cabinet with center shelf, single door (with sturdy lock). Finished in Bonney red "crackle" enamel and made of heavy gage sheet metal. Attractively designed with rounded corners, chromium trim and mounted on rubber-tired casters for noiseless, easy movement.

The platform top of this cabinet will accommodate the MB76 tool chest and many of the other Bonney tool boxes with the exception of the larger MB82 chest.

### OVERALL DIMENSIONS:-

Length 24", Depth 11-3/4", Height 24-1/8",

Weight 38 lbs.



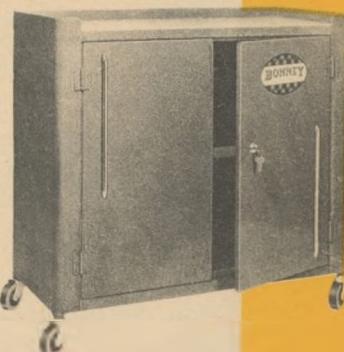
**CC10 ROLLER CABINET**

Much wider than the CC5 cabinet, this provides ample storage space for the safekeeping of tools. A truly strong cabinet made of heavy gauge sheet metal, finished in Bonney red "crackle" enamel. All corners are rounded. This cabinet is mounted on rubber-tired casters. Features a center shelf, double doors with strong door lock.

The platform top is designed large enough to hold the MB82 metal chest.

**OVERALL DIMENSIONS:—**

Length 27-7/8", Depth 13", Height 24-1/4",  
Weight 45 lbs.

**CC15 ROLLER CABINET**

Casters, channels, handle plates, 16 gage.

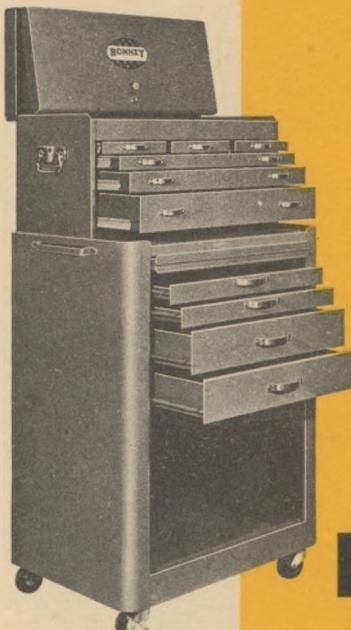
Sides and slides made of 18 gage.

Back, top and bottom, shelf, drawers and panel, 20 gage.

Here is an excellent storage locker with four drawers mounted on safety-stop roller slides. A truly strong cabinet made of heavy gage steel, finished in Bonney red "crackle" enamel. The hinged drop-front closes the entire cabinet and is equipped with a strong tumbler lock. The rubber-tired casters facilitate easy movement of the cabinet. Two of these casters are equipped with locking brakes.

	LENGTH	DEPTH	HEIGHT	
Top Drawer	22"	16-3/4"	1-7/8"	center
Second Drawer	22"	16-3/4"	1-7/8"	divided
Third Drawer	22"	16-3/4"	3-7/8"	
Fourth Drawer	22"	16-3/4"	3-7/8"	
Cabinet	27-5/8"	18"	34-1/2"	
				Cabinet Weight 106 lbs.

The platform on this cabinet is large enough to hold any of the tool boxes or chests in the Bonney line, thereby increasing the amount of tools available to the mechanic in easy access on any job.





## ROLLS AND ENVELOPES



Made of strong oil-resistant red plastic trimmed in black with black tie tapes or button snaps. Each has transparent plastic pockets for best visibility and easy access to tools.

### LR5 CLEAR PLASTIC ENVELOPE

Has fold-over flap with snap button fastener.

WIDTH 5-1/2" HEIGHT (CAPACITY) 2-3/4" WEIGHT LBS. .032



Made with fold-over flap with tie tapes. Has four (4) pockets.

WIDTH 3-7/8" HEIGHT (CAPACITY) 4-1/4" WEIGHT LBS. .032



This roll has three (3) pockets, fold-over flap with double snap button fasteners.

WIDTH 7" HEIGHT (CAPACITY) 6" WEIGHT LBS. .047



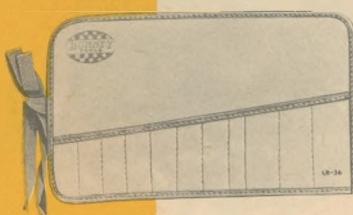
Has five (5) plastic pockets and tie tapes.

WIDTH 5-3/4" HEIGHT (CAPACITY) 5" WEIGHT LBS. .062



This roll features nine (9) pockets with fold-over flap and tie tapes.

WIDTH 9" HEIGHT (CAPACITY) 5-1/4" WEIGHT LBS. .062



Has eleven (11) pockets with fold-over flap and tie tapes.

WIDTH 10-3/8" HEIGHT (CAPACITY) 6" WEIGHT LBS. .047



## TOOL BOXES — CABINETS — CHESTS — ROLLS

### LR56 PLASTIC ROLL

Featuring six (6) pockets with fold-over flap and tie tapes.

WIDTH 11-5/8"

HEIGHT (CAPACITY) 13"  
WEIGHT LBS. .156

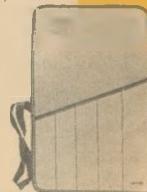


### LR70 PLASTIC ROLL

Has five (5) pockets with fold-over flap with tie tapes.

WIDTH 7-1/2"

HEIGHT (CAPACITY) 9-5/8"  
WEIGHT LBS. .093



### LR72 PLASTIC ROLL

This roll features five (5) plastic pockets and fold-over flap with tie tapes.

WIDTH 7-1/2"

HEIGHT (CAPACITY) 12-1/16"  
WEIGHT LBS. .125

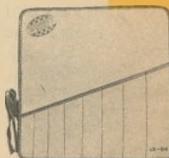


### LR80 PLASTIC ROLL

Has seven (7) plastic pockets, fold-over flaps and tie tapes.

WIDTH 10-1/4"

HEIGHT (CAPACITY) 13-1/4"  
WEIGHT LBS. .031

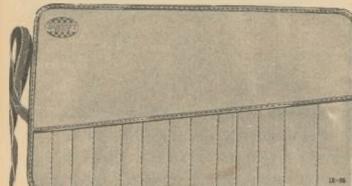


### LR84 PLASTIC ROLL

Features eight (8) pockets, fold-over flap and tie tape.

WIDTH 12"

HEIGHT (CAPACITY) 12"  
WEIGHT LBS. .187



### LR96 PLASTIC ROLL

Here is a large roll with thirteen (13) pockets, fold-over flap and tie tapes.

WIDTH 17-1/4"  
HEIGHT (CAPACITY) 9-5/8"  
WEIGHT LBS. .125



### LR97 PLASTIC ROLL

Contains five (5) pockets, flap and tie tapes.

WIDTH 12-1/4"

HEIGHT (CAPACITY) 14-1/4"

WEIGHT LBS. .156

## TECHNICAL INFORMATION



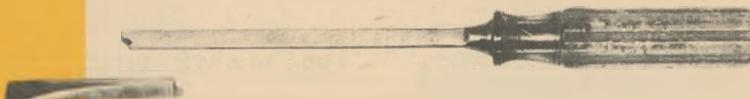
### ABUSED TOOLS ARE NOT REPLACEABLE UNDER BONNEY'S GUARANTEE



This illustration depicts a socket which has been improperly used on an impact gun. These sockets are designed for a specific use as hand tools and were not intended for use on impact guns or nut runners. The highly repeated blows imparted by an impact gun subject these sockets to severe stresses for which they were not intended and the cracks in these sockets were not caused by defective material or workmanship, but by ABUSE! The drive square is the characteristic which identifies an abused socket which has been used on an impact gun. Noting the drive square, in the above illustration, it is evident that the corners have been rounded off and the metal on the sides of the square have been peened up over the edge, causing a rounded effect. This can be seen by the highlights in the photograph. If these sockets had been broken from a high stress imparted by a static torque the metal would not have been moved out of the square, but the socket would have simply split up the side.



The illustration above shows a hinge handle which has been abused. Various sharp nicks and dents in the handle show that the handle was hammered on to break loose or tighten a nut. This has the same effect on a tool as an impact gun creating high stresses throughout the tool. The hinge handle illustrated above was not broken because of poor workmanship or material, but simply by ABUSE!



The screwdriver illustrated above with the broken blade was *not* caused by defective workmanship or material, but by excessive stress being put on the square shank of the screwdriver with a wrench. Nicks and sharp burrs in the shank were caused by a wrench. Although a square shank screwdriver or one with hexagon or square bolster invites the use of a wrench for loosening tight screws, it must be remembered that the blades were not designed to take this excessive force! Tool users should practice extreme caution in using any screwdriver in this manner. All factors in this case point to extreme abuse in using said tool, not to defect in workmanship or materials.

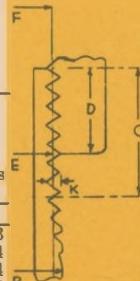
**American Standard Taper Pipe Threads**

For all dimensions see corresponding reference letters in table.

Angle between sides of thread is 60 degrees. Taper of thread, on diameter, is 3/4 inch per foot.

The basic thread depth is 0.8 X pitch of thread and the crest and root are truncated an amount equal to 0.033 X pitch, excepting 8 threads per inch which have a basic depth of 0.788 X pitch, and are truncated 0.045 X pitch at the crest and 0.033 X pitch at the root.

Nominal Pipe Size	Pipe Size		Pitch Diameter		Length of Effective Thread	Length of Hand-tight Engagement	Imper-fect Threads	Depth of Threads (Max.)	K
	Out-side Diam.	No. of Threads per Inch	At End of External Thread	At End of Internal Thread					
	B	F	E	D	C				
1/8	0.405	27	0.36351	0.37476	0.2638	0.180	0.1285	0.02963	
1/4	0.540	18	0.47739	0.48989	0.4018	0.200	0.1928	0.04444	
3/8	0.675	18	0.61201	0.62701	0.4078	0.240	0.1928	0.04444	
1/2	0.840	14	0.75843	0.75843	0.5337	0.320	0.2478	0.05714	
5/8	1.050	14	0.96768	0.98887	0.5457	0.339	0.2478	0.05714	
1	1.315	11-1/2	1.21363	1.23863	0.6828	0.400	0.3017	0.06957	
1-1/4	1.660	11-1/2	1.55713	1.58338	0.7068	0.420	0.3017	0.06957	
1-1/2	1.900	11-1/2	1.79609	1.82234	0.7235	0.420	0.3017	0.06957	
2	2.375	11-1/2	2.26902	2.29627	0.7565	0.436	0.3017	0.06957	
2-1/2	2.875	8	2.71953	2.76216	1.1375	0.682	0.4337	0.09850	
3	3.500	8	3.34063	3.38850	1.2000	0.766	0.4337	0.09850	
3-1/2	4.000	8	3.83750	3.88881	1.2500	0.821	0.4337	0.09850	
4	4.500	8	4.33438	4.38713	1.3000	0.844	0.4337	0.09850	
5	5.563	8	5.39073	5.44929	1.4063	0.937	0.4337	0.09850	
6	6.625	8	6.44609	6.50597	1.5125	0.958	0.4337	0.09850	
8	8.625	8	8.43359	8.50003	1.7125	1.063	0.4337	0.09850	
10	10.750	8	10.54531	10.62094	1.9250	1.210	0.4337	0.09850	
12	12.750	8	12.53281	12.61781	2.1250	1.360	0.4337	0.09850	
14 OD	14.000	8	13.77500	13.87263	2.2500	1.562	0.4337	0.09850	
16 OD	16.000	8	15.76250	15.87575	2.4500	1.812	0.4337	0.09850	
18 OD	18.000	8	17.75000	17.87500	2.6500	2.000	0.4337	0.09850	
20 OD	20.000	8	19.73750	19.87031	2.8500	2.125	0.4337	0.09850	
24 OD	24.000	8	23.71250	23.86094	3.2500	2.375	0.4337	0.09850	


**TAP AND CLEARANCE DRILLS FOR STANDARD MACHINE SCREWS**

FINE THREADS					COARSE THREADS				
Screw No. or Diam.	Thds. per Inch	Tap Drill Size	Clearance Hole Drill Size Close	Hole Free	Screw No. or Diam.	Thds. per Inch	Tap Drill Size	Clearance Hole Drill Size Close	Hole Free
0	80	3 <sup>7</sup> / <sub>64</sub>	52	50	1	64	53	48	46
1	72	53	48	46	2	56	50	43	41
2	64	50	43	41	3	48	47	37	35
3	56	45	37	35	4	40	43	32	30
4	48	42	32	30	5	40	38	30	29
5	44	37	30	29	6	32	36	27	25
6	40	33	27	25	8	32	29	18	16
8	36	29	18	16	10	24	25	9	7
10	32	21	9	7	12	24	16	2	1
12	28	14	2	1	1/4	20	7	F	H
1/4	28	3	F	H	5 <sup>1</sup> / <sub>16</sub>	18	F	P	Q
5/16	24	I	P	Q	3 <sup>3</sup> / <sub>8</sub>	16	5 <sup>1</sup> / <sub>16</sub>	W	X
3/8	24	Q	W	X	7/16	14	U	29/64	15/32
7/16	20	25 <sup>1</sup> / <sub>64</sub>	29 <sup>1</sup> / <sub>64</sub>	15/32	1/2	13	27/64	33/64	17/32
1/2	20	29 <sup>1</sup> / <sub>64</sub>	33 <sup>1</sup> / <sub>64</sub>	17/32					



## ERRATA SHEET

This sheet is for the convenience of those who desire an up-to-date catalog at all times. When an error or addition is discovered—fill in the information on one of these lines and mark the line number in the proper place in the catalog. This will give an easy and quick reference for future questions on the same item.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40



